

### RAW SEQUENCE LISTING ERROR REPORT

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Application Serial Number: 10724,972
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- 1. EFS-Bio (<a href="http://www.uspto.gov/ebc/efs/downloads/documents.htm">http://www.uspto.gov/ebc/efs/downloads/documents.htm</a> , EFS Submission User Manual ePAVE)
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Revised 10/08/03



**IFWO** 

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/724,972

DATE: 12/17/2003 TIME: 07:52:51

Input Set : D:\PATH03-16.pto.txt

Output Set: N:\CRF4\12162003\J724972.raw

- 4 <110> APPLICANT: Doucette-Stamm, Lynn
- 5 Bush, David
- 7 <120> TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
  - 8 EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS
  - 10 <130> FILE REFERENCE: PATH03-16
- C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/724,972
- C--> 12 <141> CURRENT FILING DATE: 2003-12-01
  - 12 <150> PRIOR APPLICATION NUMBER: 09/450,969
  - 13 <151> PRIOR FILING DATE: 1999-11-29
  - 15 <150> PRIOR APPLICATION NUMBER: 09/134,001
  - 16 <151> PRIOR FILING DATE: 1998-08-13
  - 18 <150> PRIOR APPLICATION NUMBER: 60/064,964
  - 19 <151> PRIOR FILING DATE: 1997-11-08
  - 21 <150> PRIOR APPLICATION NUMBER: 60/055,779
  - 22 <151> PRIOR FILING DATE: 1997-08-14
  - 24 <160> NUMBER OF SEQ ID NOS: 7544

Does Not Comply Corrected Diskette Needed

### ERRORED SEQUENCES

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77799 <213> ORGANISM: S.epidermidis

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77806 Thr Tyr Asn Phe Gln Ile Thr Ser Asn Asn Lys Glu Lys Thr Ser Arg

77807 35 40 45

77808 Ile Gly Val Ala Ile Ala Leu Asn Asn Arg Asp Lys Leu Gln Lys Phe

7809 50 55 60

77810 Ser Ile Arg Lys Tyr Ala Ile Gly Thr Phe Ser Thr Val Ile Ala Thr 77811 65 70 75 80

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77817 115 120 125 77818 Ser Gly Lys Thr Glu Ser Leu Arg Ser Ser Thr Ser Gln Asn Gln Ala

77819 130 135 14

PATENT APPLICATION: US/10/724,972

DATE: 12/22/2003 TIME: 07:13:25

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73826 73827 73828 73829 73830 73831 73832	Asn Ile Phe	Val Thr Lys 1570	Ile Val 1555 Asn	Asn 1540 Gly 5 Thr	1525 Val ) Asn Ile	Tyr Tyr Asn	Phe Asp Val 1575	Val His 1560 Asn	Pro 1545 His O Asp	1530 Ser Thr	Asp Val Tyr	Lys Tyr Gly 1580	Val Ser 1569 Leu	Asn 1550 Gly S	1535 Pro ) Glu Thr	Ser Thr Val
73826 73827 73828 73829 73830 73831 73832 73833	Asn Ile Phe Ala	Val Thr Lys 1570 Ser	Ile Val 1555 Asn	Asn 1540 Gly 5 Thr	1525 Val ) Asn Ile	Tyr Tyr Asn	Phe Asp Val 1575 Ala	Val His 1560 Asn	Pro 1545 His	1530 Ser Thr	Asp Val Tyr	Lys Tyr Gly 1580 Arg	Val Ser 1569 Leu	Asn 1550 Gly S	1535 Pro ) Glu Thr	Ser Thr Val
73826 73827 73828 73829 73830 73831 73832 73833 73834	Asn Ile Phe Ala 1589	Val Thr Lys 1570 Ser	Ile Val 1555 Asn ) Thr	Asn 1540 Gly Thr	1525 Val ) Asn Ile Asp	Tyr Tyr Asn Ser 1590	Phe Asp Val 1575 Ala	Val His 1560 Asn Ule	Pro 1545 His O Asp	1530 Ser Thr Asn Met	Asp Val Tyr Thr 1595	Lys Tyr Gly 1580 Arg	Val Ser 1569 Leu ) Asn	Asn 1550 Gly S Asn Asn	1535 Pro ) Glu Thr	Ser Thr Val Glu 1600
73826 73827 73828 73829 73830 73831 73832 73833 73834 73835	Asn Ile Phe Ala 1589	Val Thr Lys 1570 Ser	Ile Val 1555 Asn ) Thr	Asn 1540 Gly Thr	1525 Val O Asn Ile Asp	Tyr Tyr Asn Ser 1590	Phe Asp Val 1575 Ala	Val His 1560 Asn Ule	Pro 1545 His O Asp	1530 Ser Thr Asn Met	Asp Val Tyr Thr 1595	Lys Tyr Gly 1580 Arg	Val Ser 1569 Leu ) Asn	Asn 1550 Gly S Asn Asn	1535 Pro ) Glu Thr	Ser Thr Val Glu 1600 Val
73826 73827 73828 73829 73830 73831 73832 73833 73834 73835 73836	Asn Ile Phe Ala 1589 Leu	Val Thr Lys 1570 Ser Val	Ile Val 1555 Asn Thr	Asn 1540 Gly Thr Ser	1525 Val ) Asn Ile Asp Ala 1605	Tyr Tyr Asn Ser 1590 Pro	Phe Asp Val 1575 Ala Asn	Val His 1560 Asn Tle Val	Pro 1549 His O Asp Thr	Ser Thr Asn Met Asn 1610	Asp Val Tyr Thr 1595 Ser	Lys Tyr Gly 1580 Arg	Val Ser 1569 Leu ) Asn	Asn 1550 Gly Asn Asn	1535 Pro ) Glu Thr Asn Ile 1615	Ser Thr Val Glu 1600 Val
73826 73827 73828 73829 73830 73831 73832 73833 73834 73835 73836 73837	Asn Ile Phe Ala 1589 Leu	Val Thr Lys 1570 Ser Val	Ile Val 1555 Asn Thr	Asn 1540 Gly Thr Ser Gln	1525 Val Asn Ile Asp Ala 1605 Thr	Tyr Tyr Asn Ser 1590 Pro	Phe Asp Val 1575 Ala Asn	Val His 1560 Asn Tle Val	Pro 1545 His O Asp Thr Thr	1530 Ser Thr Asn Met Asn 1610 Asn	Asp Val Tyr Thr 1595 Ser	Lys Tyr Gly 1580 Arg	Val Ser 1569 Leu ) Asn	Asn 1550 Gly Asn Asn Lys Val	1535 Pro ) Glu Thr Asn Ile 1615 Ser	Ser Thr Val Glu 1600 Val
73826 73827 73828 73829 73830 73831 73832 73833 73834 73835 73836 73837 73838	Asn Ile Phe Ala 1585 Leu Lys	Val Thr Lys 1570 Ser Val Val	Val 1555 Asn Thr Gly	Asn 1540 Gly Thr Ser Gln Ala 1620	1525 Val Asn Ile Asp Ala 1605 Thr	Tyr Tyr Asn Ser 1590 Pro Asp	Phe Asp Val 1575 Ala Asn Lys	Val His 1560 Asn Tle Val Ser	Pro 1545 His O Asp Thr Thr Gly 1625	1530 Ser Thr Asn Met Asn 1610 Asn	Asp Val Tyr Thr 1595 Ser Glu	Lys Tyr Gly 1580 Arg Ile Ser	Val Ser 1569 Leu Asn Asn Ile	Asn 1550 Gly 5 Asn Asn Lys Val 1630	1535 Pro ) Glu Thr Asn Ile 1615 Ser	Ser Thr Val Glu 1600 Val
73826 73827 73828 73829 73830 73831 73832 73833 73834 73835 73836 73837 73838 73838	Asn Ile Phe Ala 1585 Leu Lys	Val Thr Lys 1570 Ser Val Val	Ile Val 1555 Asn Thr Gly Lys Asn	Asn 1540 Gly Thr Ser Gln Ala 1620 Ile	1525 Val Asn Ile Asp Ala 1605 Thr	Tyr Tyr Asn Ser 1590 Pro Asp	Phe Asp Val 1575 Ala Asn Lys	Val His 1560 Asn Ile Val Ser Asn	Pro 1545 His O Asp Thr Thr Gly 1625 Glu	1530 Ser Thr Asn Met Asn 1610 Asn	Asp Val Tyr Thr 1595 Ser Glu	Lys Tyr Gly 1580 Arg Ile Ser	Val Ser 1569 Leu Asn Asn Ile	Asn 1550 Gly 5 Asn Asn Lys Val 1630 Thr	1535 Pro ) Glu Thr Asn Ile 1615 Ser	Ser Thr Val Glu 1600 Val
73826 73827 73828 73829 73830 73831 73832 73833 73834 73835 73836 73837 73838 73839 73840	Asn Ile Phe Ala 1585 Leu Lys Thr	Val Thr Lys 1570 Ser Val Val	Val 1555 Asn Thr Gly Lys Asn 1635	Asn 1540 Gly 5 Thr Ser Gln Ala 1620 Ile	1525 Val Asn Ile Asp Ala 1605 Thr	Tyr Tyr Asn Ser 1590 Pro Asp	Phe Asp Val 1575 Ala Asn Lys Leu	Val His 1560 Asn Ile Val Ser Asn 1640	Pro 1545 His O Asp Thr Thr Gly 1625 Glu	1530 Ser Thr Asn Met Asn 1610 Asn Lys	Asp Val Tyr Thr 1595 Ser Glu Tyr	Lys Tyr Gly 1580 Arg Ile Ser Arg	Val Ser 1569 Leu Asn Asn Ile Ile 1649	Asn 1550 Gly 5 Asn Asn Lys Val 1630 Thr	1535 Pro ) Glu Thr Asn Ile 1615 Ser )	Ser Thr Val Glu 1600 Val Phe Ser
73826 73827 73828 73829 73830 73831 73832 73833 73834 73835 73836 73837 73838 73839 73840 73841	Asn Ile Phe Ala 1585 Leu Lys Thr	Val Thr Lys 1570 Ser Val Val Val Ser	Val 1555 Asn Thr Gly Lys Asn 1635 Asn	Asn 1540 Gly 5 Thr Ser Gln Ala 1620 Ile	1525 Val Asn Ile Asp Ala 1605 Thr	Tyr Tyr Asn Ser 1590 Pro Asp	Phe Asp Val 1575 Ala Asn Lys Leu Val	Val His 1560 Asn Ile Val Ser Asn 1640 Arg	Pro 1545 His O Asp Thr Thr Gly 1625 Glu	1530 Ser Thr Asn Met Asn 1610 Asn Lys	Asp Val Tyr Thr 1595 Ser Glu Tyr	Lys Tyr Gly 1580 Arg Ile Ser Arg	Val Ser 1569 Leu Asn Asn Ile Ile 1649 Gln	Asn 1550 Gly 5 Asn Asn Lys Val 1630 Thr	1535 Pro ) Glu Thr Asn Ile 1615 Ser )	Ser Thr Val Glu 1600 Val Phe Ser
73826 73827 73828 73829 73830 73831 73832 73833 73834 73835 73836 73837 73838 73839 73840 73841 73842	Asn Ile Phe Ala 1589 Leu Lys Thr	Val Thr Lys 1570 Ser Val Val Val Ser 1650	Ile Val 1555 Asn Thr Gly Lys Asn 1635 Asn	Asn 1540 Gly Thr Ser Gln Ala 1620 Ile	1525 Val ) Asn Ile Asp Ala 1605 Thr ) Lys	Tyr Tyr Asn Ser 1590 Pro Asp Pro	Phe Asp Val 1575 Ala Asn Lys Leu Val 1655	Val His 1560 Asn Ile Val Ser Asn 1640 Arg	Pro 154! His O Asp Thr Thr Gly 162! Glu O	1530 Ser Thr Asn Met Asn 1610 Asn Lys	Asp Val Tyr Thr 1595 Ser Glu Tyr Asn	Lys Tyr Gly 1580 Arg Ile Ser Arg Ile 1660	Val Ser 1569 Leu Asn Asn Ile 1649 Gln	Asn 1550 Gly 5 Asn Asn Lys Val 1630 Thr 5	1535 Pro ) Glu Thr Asn Ile 1615 Ser ) Thr	Ser Thr Val Glu 1600 Val Phe Ser Ala
73826 73827 73828 73829 73830 73831 73832 73833 73834 73835 73836 73837 73838 73839 73840 73841 73842 73843	Asn Ile Phe Ala 1589 Leu Lys Thr Ser Asn	Val Thr Lys 1570 Ser Val Val Val Ser 1650 Leu	Ile Val 1555 Asn Thr Gly Lys Asn 1635 Asn	Asn 1540 Gly Thr Ser Gln Ala 1620 Ile	1525 Val Asn Ile Asp Ala 1605 Thr Lys	Tyr Tyr Asn Ser 1590 Pro Asp Pro Asp	Phe Asp Val 1575 Ala Asn Lys Leu Val 1655 Gln	Val His 1560 Asn Ile Val Ser Asn 1640 Arg	Pro 1545 His O Asp Thr Thr Gly 1625 Glu	1530 Ser Thr Asn Met Asn 1610 Asn Lys	Asp Val Tyr Thr 1595 Ser Glu Tyr Asn	Lys Tyr Gly 1580 Arg Ile Ser Arg Ile 1660 Ser	Val Ser 1569 Leu Asn Asn Ile 1649 Gln	Asn 1550 Gly 5 Asn Asn Lys Val 1630 Thr 5	1535 Pro ) Glu Thr Asn Ile 1615 Ser ) Thr	Ser Thr Val Glu 1600 Val Phe Ser Ala Met
73826 73827 73828 73829 73830 73831 73832 73833 73834 73835 73836 73837 73838 73839 73840 73841 73842 73843 73843	Asn Ile Phe Ala 1589 Leu Lys Thr Ser Asn 1669	Val  Thr  Lys 1570 Ser  Val  Val  Val  Ser 1650 Leu	Ile Val 1555 Asn Thr Gly Lys Asn 1635 Asn Comparison Ser	Asn 1540 Gly 5 Thr Ser Gln Ala 1620 Ile 5 Gln	1525 Val Val Asn Ile Asp Ala 1605 Thr Lys Thr Glu	Tyr  Tyr  Asn  Ser 1590 Pro  Asp  Pro  Asp  Pro  Asp	Phe Asp Val 1575 Ala Asn Lys Leu Val 1655 Gln	Val His 1560 Asn Ile Val Ser Asn 1640 Arg Asn	Pro 1545 His O Asp Thr Thr Gly 1625 Glu O Ile	1530 Ser Thr Asn Met Asn 1610 Asn Lys Ser Val	Asp Val Tyr Thr 1595 Ser Glu Tyr Asn Lys 1675	Lys Tyr Gly 1580 Arg Ile Ser Arg Ile 1660 Ser	Val Ser 1569 Leu Asn Asn Ile Ile 1649 Gln Ser	Asn 1550 Gly Asn Asn Lys Val 1630 Thr Asn Leu	1535 Pro ) Glu Thr Asn Ile 1615 Ser ) Thr Asn Ser	Ser Thr Val Glu 1600 Val Phe Ser Ala Met 1680
73826 73827 73828 73829 73830 73831 73832 73833 73834 73835 73836 73837 73838 73839 73840 73841 73842 73843 73843 73844	Asn Ile Phe Ala 1589 Leu Lys Thr Ser Asn 1669	Val  Thr  Lys 1570 Ser  Val  Val  Val  Ser 1650 Leu	Ile Val 1555 Asn Thr Gly Lys Asn 1635 Asn Ser	Asn 1540 Gly 5 Thr Ser Gln Ala 1620 Ile 5 Gln	1525 Val Val Asn Ile Asp Ala 1605 Thr Lys Thr Glu Gly	Tyr Tyr Asn Ser 1590 Pro Asp Pro Asp 1670 Thr	Phe Asp Val 1575 Ala Asn Lys Leu Val 1655 Gln	Val His 1560 Asn Ile Val Ser Asn 1640 Arg Asn	Pro 154! His O Asp Thr Thr Gly 162! Glu O	1530 Ser Thr Asn Met Asn 1610 Asn Lys Ser Val	Asp Val Tyr Thr 1595 Ser Glu Tyr Asn Lys 1675 Asn	Lys Tyr Gly 1580 Arg Ile Ser Arg Ile 1660 Ser	Val Ser 1569 Leu Asn Asn Ile Ile 1649 Gln Ser	Asn 1550 Gly Asn Asn Lys Val 1630 Thr Asn Leu	1535 Pro ) Glu Thr Asn Ile 1615 Ser ) Thr Asn Ser Asn	Ser Thr Val Glu 1600 Val Phe Ser Ala Met 1680 Asp
73826 73827 73828 73829 73830 73831 73832 73833 73834 73835 73836 73837 73838 73839 73840 73841 73842 73843 73844 73845 73846	Asn Ile Phe Ala 1585 Leu Lys Thr Ser Asn 1665 Thr	Val Thr Lys 1570 Ser Val Val Val Ser 1650 Leu Lys	Ile Val 1555 Asn Thr Gly Lys Asn 1635 Asn Ser Ile	Asn 1540 Gly 5 Thr Ser Gln Ala 1620 Ile 5 Gln Ile Leu	1525 Val Val Asn Ile Asp Ala 1605 Thr Lys Thr Glu Gly 1685	Tyr Tyr Asn Ser 1590 Pro Asp Pro Asp 1670 Thr	Phe Asp Val 1575 Ala Asn Lys Leu Val 1655 Gln Arg	Val His 1560 Asn Ile Val Ser Asn 1640 Arg Asn Asn	Pro 1545 His O Asp Thr Thr Gly 1625 Glu O Ile Arg	1530 Ser Thr Asn Met Asn 1610 Asn Lys Ser Val Val 1690	Asp Val Tyr Thr 1595 Ser Glu Tyr Asn Lys 1675 Asn	Lys Tyr Gly 1580 Arg Ile Ser Arg Ile 1660 Ser	Val Ser 1569 Leu Asn Asn Ile Ile 1649 Gln Ser Ser	Asn 1550 Gly Asn Asn Lys Val 1630 Thr Asn Leu Asn	1535 Pro Glu Thr Asn Ile 1615 Ser Thr Asn Ser Asn 1695	Ser Thr Val Glu 1600 Val Phe Ser Ala Met 1680 Asp
73826 73827 73828 73829 73830 73831 73832 73833 73834 73835 73836 73837 73838 73839 73840 73841 73842 73843 73843 73844	Asn Ile Phe Ala 1585 Leu Lys Thr Ser Asn 1665 Thr	Val Thr Lys 1570 Ser Val Val Val Ser 1650 Leu Lys	Ile Val 1555 Asn Thr Gly Lys Asn 1635 Asn Ser Ile	Asn 1540 Gly 5 Thr Ser Gln Ala 1620 Ile 5 Gln Ile Leu	1525 Val  Val  Asn Ile Asp Ala 1605 Thr  Lys Thr Glu Gly 1685 Val	Tyr Tyr Asn Ser 1590 Pro Asp Pro Asp 1670 Thr	Phe Asp Val 1575 Ala Asn Lys Leu Val 1655 Gln Arg	Val His 1560 Asn Ile Val Ser Asn 1640 Arg Asn Asn	Pro 1545 His O Asp Thr Thr Gly 1625 Glu O Ile	1530 Ser Thr Asn Met Asn 1610 Asn Lys Ser Val Val 1690 Asn	Asp Val Tyr Thr 1595 Ser Glu Tyr Asn Lys 1675 Asn	Lys Tyr Gly 1580 Arg Ile Ser Arg Ile 1660 Ser	Val Ser 1569 Leu Asn Asn Ile Ile 1649 Gln Ser Ser	Asn 1550 Gly Asn Asn Lys Val 1630 Thr Asn Leu Asn	1535 Pro ) Glu Thr Asn Ile 1615 Ser ) Thr Asn Ser Asn 1695 Asn	Ser Thr Val Glu 1600 Val Phe Ser Ala Met 1680 Asp

## RAW SEQUENCE LISTING DATE: 12/22/2003 PATENT APPLICATION: US/10/724,972 TIME: 07:13:25

73849	Thr	Val			Thr	Thr	Thr			Asp	Gly	Thr			Thr	Ile
73850	m)		171		_	•		172					172			
73851	Thr			vaı	ьys	Hls			. Leu	ı GLu	. Val			Thr	Thr	Arg
73852 73853	mı	173		_	~-	~ -	173					174				
			val	Arg	GIY			Phe	Pro	Thr			Gly	Thr	Ser	Pro
73854	174		D.	D.1	~	175					175	-				1760
73855	Asn	Asp	Phe	Phe			Arg	Thr	GLy			Val	Asp	Ala		Ile
73856	57 - T	m	** 1		176		~ 1	_	_	177					177	
73857	Val	Trp	vaı			GIn	GLY	Pro			Asn	Ser	Asn			Gly
73858	7	7	<b>.</b>	178		** 1		~ 3	178	-	_,	_		179		
73859	Arg	Asp			Leu	Hls	Ата			Phe	Phe	Asp	_		Thr	Thr
73860	D	<b>.</b>	179	-	_	m,		180		_	_		180			
73861	Pro			Lys	Asp	Thr			Lys	Leu	Ser			Ile	Pro	Lys
73862	G1	181		<b>0</b> 1	m1	m1	181			_		182				
73863			Tyr	GLu	Thr			Asn	GLY	Arg			Ser	Ser	Gly	_
73864	182		-	~ 3	-	183		~ -		<b>.</b>	183					1840
73865	Ата	Tyr	Pro	GTĀ			Val	Gln	Ala	Val		Gln	Tyr	Trp		
73866	11.2 -	N4 - 4	70	D1 -	184	-	~ 7	~ 3		185			_		185	
73867	HIS	Met	Asp			Trp	Ala	GIn		Ser	Gly	Thr	Pro			Arg
73868	7	70 Ti _	<b>G1</b>	186		m1	_	m.)	186				_	187		
73869	Asn	Ата			Phe	Thr	Lys			Thr	Val	Val			Asn	Gly
73870	a1	m1	187		** 3	_	1	188		_		_	188			
73871	GIN			Asn	Val	Asn			Phe	Lys	Val			Asn	Lys	Pro
73872	17 - 7	1890		~	_	~	189		_	_		1900				
73873			Asp	Ser	Asn			lle	Ser	Lys			Leu	Asn	Gly	
73874	190		<del>-</del>		_	1910		_	~-	_	191			_		1920
73875	GIN	тте	Leu	vaı			Val	Pro	Gln	Asn		Gln	Val	Thr		_
73876	~1	0	71	<b>01</b>	1925		~ 1	_	_	193			_,		193	
73877 73878	GIN	ser	Asn			Va⊥	тте	Pro		Thr	Asn	Thr	Thr			Ser
73879	7	C1	т1.	1940		*7_ T	m)	<b>~</b> 3	194	-	1	_	_	1950		_
73880	ASII	СТА			Thr	val	Thr			Gly	Thr	Leu			GLy	Asn
73881	тіо	∏h w	1955		mb	C	M - +	1960		70	77 - 7	m1.	1965		-	~1
73882	тте	1970		ьуѕ	TILL	ser			Asn	Asn	vaı			Thr	ьуs	GIn
73883	7 cm			C1	T1.	7\ 7 \ 0	1975	-	mЪ	m 1	01	1980		~	** 7	<b>D</b> 1
73884	198!		per	GIÀ	тте	1990		ASII	THE	Thr		_	тте	Ser	vaı	
73885			7) an	Cor	7 00			7 ~ ~	17a 7	mh as	1995		N/ - +	<b>~1</b>	70 71	2000
73886	ser	GIU	ASII	Ser			val	ASII	val	Thr		СТА	мет	GIn		
73887	7\ cn	7) an	C1,,	T10	2005		тіс	T	C1	2010		m	70	D1.	2015	
73888	ASII	ASP	дтў	2020		тте	тте	цуѕ		Thr	ASI	Tyr	Asn			Asp
73889	Dho	Λan	Car			Cox	7) an	т1.	202		114 ~	C	m1	2030		М
73890	rne	ASII	2035		тте	ser	ASII			Ala	HIS	ser			Thr	Trp
73891	7) cm	C1,,			7.00	Can	П	2040		7	777_	G1	2045		m1	T
73892	ASII			PIO	ASII	ser			ASI	Asn	тте			Tnr	Tnr	ьуs
73893	ሞኮ∽	2050		77~7	mb~	T 0::	2055		U-1 -	C1-	C1	2060		ጠ <b>ኤ</b>	77-7	7)
73894			TIIT	va⊥	111I.			ASN	uTS	Gln			Arg	rnr	val	_
73895	2065		Tl.	Th ~	T1^	2070		መኤ	₹7° 1	m 1	2075		7) -	D-4	T7_ 7	2080
73896	тте	LTO	тте	THE	2085		rro	rnr	νa⊥	Thr		туѕ	ASN	rro		
73897	7.00	Cl-	T ***	C1			Т о	mъ	7\	2090		7	T7 - 7	m	2095	
13031	ASP	GTII	ъуs	$ar\lambda$	ur.d	ASD	ьeu	$\operatorname{tur}$	ASN	Gly	rnr	Asp	val	Tyr	Asn	туr

73898				2100	)				2105					2110	)	
73899	Tle	Tle	Phe		Asn	Asn	Asn	Ara			Glv	Thr	Ala			Lvs
73900	110	110	2115		11011		11011	2120		J 1	1,		2125			~10
73901	Asn.	Asn			Pro	Asn	LVS			Ala	Glv	Val			Leu	Tle
73902	пор	2130	_	0111		1100	2135				~- <u>J</u>	2140				
73903	ΔΊа			Asn	Tyr	Pro			Ser	Thr	Pro			Val	Pro	Val
73904	2145		var	11011	1 y 1	2150		110	001		2155		524			2160
73905			Trn	Val	Tyr			Asn	Phe	Thr			Tle	Tur	Lvs	
73906	цуз	Val	тър	VUL	2165		LIIC	1100	1110	2170		110		- 1 -	2175	
73900	Cln	Ual	Glaz	Aen	Thr		Dro	T.ve	Glv			Δla	Glv	Tur		•
73908	9111	٧۵٢	ОТУ	2180		1110	110	цуо	2185		1-12	1114	OL y	2190		170
73909	Hie	Τ.Δ11	Glu		Gly	Glu	Glv	T.e.11			Asp	Glv	Trp			Tvr
73910	1113	пец	2195		OLY	OIU	O±y	2200		110	TIPE	0-1	2205			-1-
73911	Trn	Aen			Ser	Thr	Glv			Ser	Asp	Gln			Ser	Len
73912	тър	2210		OTII	DGI	1111	2215		1111	DCI	пор	2220		0111	001	шса
73912	715			Ara	Thr	Dro			T.375	Thr	G1 v			Asn	Val	Val
73913	2225	_	7117	ALG	1.111	2230		Val	шуз	1111	2235		- y -	1100	٧٠٠	2240
73914			Sar	Zen	Trp			Trn	Gln	Thr			Ser	Δla	Lus	
73916	ASII	LIO	DET	nan	2245		Val	тър	OIII	2250		0111	DOL	2114	2255	
73917	Tla	U a I	Thr	Δen	Ala		Pro	Asn	Gln			Tle	Thr	Gln		
73918	116	vaı	TIII	2260		пуз	FIO	ASII	2265		1111	11.0	X111	2270		цуо
73910	Thr	G1 v	7 en		Thr	V=1	Thr	Pro			Va 1	Ara	Asn			Tle
	TIIT	дту	2275		TILL	Vai	TIIL	2280		1114	V CA AL	111 g	2285		шоч	110
73920 73921	cor	C1 17		-	Asp	ጥተተዮ	Tlo			Sar	<b>Δ</b> 1 ລ	Asn			Val	Tle
73921	ser	2290		ASII	Азр	тАт	2295		нта	Der	πια	2300		110	٧۵٢	110
73923	Asn			Glv	Asn	Lvs			Thr	Phe	Val	Lys	Asn	Asn	Asp	Gly
73924	230			1		2310					2315				-	2320
73925			Thr	Val	Glu	Thr	Glv	Ser	Pro	asp	Ile	Asn	Glv	Ile	Gly	Pro
73926					2325		-			2330			-		2335	
73927	Thr	Asn	Asn	Gly	Thr		Ile	Ser	Leu	Ser	Arg	Leu	Ala	Val	Arg	Pro
73928				2340					2345		_			2350		
73929	Glv	Asp	Ser	Ile	Glu	Ala	Ile	Ala	Thr	Glu	Gly	Ser	Gly	Glu	Thr	Ile
73930	-	-	2355	5				2360	)				2365	5		
73931	Ser	Thr	Ser	Ala	Thr	Ser	Glu	Ile	Tyr	Ile	Val	Lys	Ala	Pro	Gln	Pro
73932		2370					2375					2380				
73933	Glu	Gln	Val	Ala	Thr	His	Thr	Tyr	Asp	Asn	Gly	Thr	Phe	Asp	Ile	Leu
73934	2385	j j				2390	)				2395	5				2400
73935	Pro	Asp	Asn	Ser	Arg	Asn	Ser	Leu	Asn	Pro	Thr	Glu	Arg	Val	Glu	Ile
73936		_			2405					2410					2415	
73937	Asn	Tyr	Thr	Glu	Lys	Leu	Asn	Gly	Asn	Glu	Thr	Gln	Lys	Ser	Phe	Thr
73938		-		2420				-	2425					2430		
73939	Ile	Thr	Lys	Asn	Asn	Asn	Gly	Lys	Trp	Thr	Ile	Asn	Asn	Lys	Pro	Asn
73940			2435				-	2440					2445			
73941	Tyr	Val	Glu	Phe	Asn	Gln	Asp	Asn	Gly	Lys	Val	Val	Phe	Ser	Ala	Asn
73942	-	2450					2455		_	~		2460				
73943	Thr	Ile	Lys	Pro	Asn	Ser	Gln	Ile	Thr	Ile	Thr	Pro	Lys	Ala	Gly	Gln
73944	246		-			2470					2475				-	2480
73945			Thr	Glu	Asn	Thr	Asn	Pro	Thr	Val	Ile	Gln	Ala	Pro	Ala	Gln
73946	-				2485					2490					2495	

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73947 73948	His	Thr	Leu	Thr 2500		Asn	Glu	Ile	Val 2505		Glu	Gln	Gly	Gln 2510		Val
73949	Thr	Asn	-	Asp		Asn	Asn		Val	Gln	Val	Pro	Asn 2525	_	Asn	Arg
73950			2515		~ 1	<b>~</b> 3	-	2520		ъ	m)	<b>3</b> 0 .			<b>01</b> .	<b>a</b> 1
73951	Val			ьуs	GIn	GIY			Leu	Pro	Thr			Ата	GLY	GTÀ
73952		2530		•		_	2535				_	2540		~-	_	_
73953			Ser	His	lle			Val	Ile	Tyr			Asp	GLy	Ser	
73954	2545					2550				_	2555		_			2560
73955	Glu	Glu	Ala	Thr			Val	Arg	Thr	_		Asn	Lys	Thr		
73956					2565					2570		_			2575	
73957	Ile	Asn	Ala	_	-	Arg	Leu	Asp	Glu		Ile	Ser	Lys			Lys
73958				2580					2585					2590		
73959	Thr	Pro			Ile	Arg	Asn		Asp	Gln	Ala	Met			Ala	Gln
73960			2595					2600					2605			
73961	Ser	Gln	Ile	Asn	Thr	Ala			Asp	Ala	Asp	Gln	Val	Ile	Gly	Thr
73962		2610					2615					2620				
73963	Glu	Phe	Ala	Thr	Pro	Gln	Gln	Val	Asn	Ser			Ser	Lys	Val	Gln
73964	2625					2630					2635					2640
73965	Ala	Ala	Gln	Asn	Lys	Ile	Asn	Glu	Ala	_		Leu	Leu	Gln		
73966					2645	5				2650	)				2655	5
73967	Ala	Asp	Asn			Leu	Val	Arg	Ala	Lys	Glu	Gln	Leu	Gln	Gln	Ser
73968				2660	)				2665	5				2670	)	
73969	Ile	Gln	Pro	Ala	Ala	Ser	Thr	Asp	Gly	Met	Thr	Gln	Asp	Ser	Thr	Arg
73970			2675	5				2680	)				2685	5		
73971	Asn	Tyr	Lys	Asn	Lys	Arg	Gln	Ala	Ala	Glu	Gln	Ala	Ile	Gln	His	Ala
73972		2690	) _				2695	5				2700	)			
73973	Asn	Ser	Val	Ile	Asn	Asn	Gly	Asp	Ala	Thr	Ser	Gln	Gln	Ile	Asn	Asp
73974	2705	5				2710	)				2715	5				2720
73975	Ala	Lys	Asn	Thr	Val	Glu	Gln	Ala	Gln	Arg	Asp	Tyr	Val	Glu	Ala	Lys
73976		-			2725	5				2730	)				2735	5
73977	Ser	Asn	Leu	Arg	Ala	Asp	Lys	Ser	Gln	Leu	Gln	Ser	Ala	Tyr	Asp	Thr
73978				2740	)				2745	5				2750	)	
73979	Leu	Asn	Arg	Asp	Val	Leu	Thr	Asn	Asp	Lys	Lys	Pro	Ala	Ser	Val	Arg
73980			2755	5				2760	)				2765	5		
73981	Arg	Tyr	Asn	Glu	Ala	Ile	Ser	Asn	Ile	Arg	Lys	Glu	Leu	Asp	Thr	Ala
73982	_	2770					2775					2780				
73983	Lys	Ala	Asp	Ala	Ser	Ser	Thr	Leu	Arg	Asn	Thr	Asn	Pro	Ser	Val	Glu
73984	2785		-			2790			-		2795					2800
73985	Gln	Val	Arq	Asp	Ala	Leu	Asn	Lys	Ile	Asn	Thr	Val	Gln	Pro	Lys	Val
73986																
73987	Asn								Pro							Leu
73988		-		2820					2825					2830		
73989	Val	Gln	Ala			Ara	Leu	Gln	Asp		Val	Asn	Asp	Ile	Pro	Gln
73990		~	2835		-1-	9		2840					2845			
73991	Thr	Gln			Thr	Gln'	Gln		Île	Asn	Asn	Tvr			Lvs	Gln
73992	1111	2850		4100	**11	<b>11</b>	2855			- 1011		2860			-1-	
73993	Δrα			Glu	Δra	Δla			Ser	Δla	Gln			Tle	Asn	Asn
73994	2865		7.7.CI	UIU	9	2870		1111	~ (1	(4	2875		* 4.1		- 101	2880
			7.1 s	Thr	Thr			Tlo	Thr	Ser			Ser	Luc	Va 1	
73995	дтλ	ush	HIG	TIIT	TIIT	QTII	GIU	11E	TIIT	DET	JIU	плэ	DGT	пÃр	v a r	JIU

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73996					288					289					289	5
73997	Gln	Ala	Met	Gln	Ala	l Leu	Thr	Asn	Ala	Lys	Ser	Asn	Leu	Aro	Ala	Asp
73998				290	0				290	15				291	0	-
73999	Lys	Asn	Glu	Leu	Gln	Thr	Ala	Tyr	Asn	Lys	Leu	Ile	Glu	. Asn	Val	Ser
74000			291	5				292	:0				292	:5		
74001	Thr	Asn	Gly	Lys	Lys	Pro	Ala	Ser	Ile	Arg	Gln	Tyr	Glυ	Thr	Ala	Lvs
74002		293	0				293	5				294	0			-
74003	Ala	Arg	Ile	Gln	Asn	Gln	Ile	Asn	Asp	Ala	Lys	Asn	Glu	Ala	Glu	Arg
74004	294	5				295	0				295	5				2960
74005	Ile	Leu	Gly	Asn	Asp	Asn	Pro	Gln	Val	Ser	Gln	Val	Thr	Gln	Ala	Leu
74006					296	5				297	0				297	5
74007	Asn	Lys	Ile	Lys	Ala	Ile	Gln	Pro	Lys	Leu	Thr	Glu	Ala	Ile	Asn	Met
74008				298	0				298	5				299	0	
74009	Leu	Gln	Asn	Lys	Glu	Asn	Asn	Thr	Glu	Leu	Val	Asn	Ala	Lys	Asn	Arq
74010			299	5				300	0				300	5		
74011	Leu	Glu	Asn	Ala	Val	Asn	Asp	Thr	Asp	Pro	Thr	His	Gly	Met	Thr	Gln
74012		301	0				301	5				3020	0			
74013	Glu	Thr	Ile	Asn	Asn	Tyr	Asn	Ala	Lys	Lys	Arg	Glu	Ala	Gln	Asn	${ t Glu}$
74014	302	_				303					303					3040
74015	Ile	Gln	Lys	Ala	Asn	Met	Ile	Ile	Asn	Asn	Gly	Asp	Ala	Thr	Ala	Gln
74016					304	5				305	0				305.	5
74017	Asp	Ile	Ser	Ser	Glu	Lys	Ser	Lys	Val	Glu	Gln	Val	Leu	Gln	Ala	Leu
74018				306					306					307	0	
74019	GIn	Asn	Ala	Lys	Asn	Asp	Leu			Asp	Lys	Arg	Glu	Leu	Gln	Thr
74020	~ 7	_	307!					308					308			
74021	Ala	Tyr	Asn	Lys	Leu	Ile			Val	Asn	Thr	Asn	Gly	Lys	Lys	Pro
74022	~	3090			_		309					3100				
74023	Ser	Ser	TTe	GIn	Asn	Tyr		Ser	Ala	Arg			Ile	Glu	Asn	Gln
74024	3105		m1		_	3110			_		3115					3120
74025	Tyr	Asn	Thr	Ala		Asn	GLu	Ala	His			Leu	Glu	Asn	Thr	Asn
74026	D	m1	77 7	20.	312!		~ 7	_		3130					3135	5
74027 74028	Pro	Thr	vaı			Val	GLu	Asp			Arg	Lys	Ile			Ile
	C1-	D	01	314(		-			3145					3150	)	
74029 74030	GTII	Pro	GIU	vaı	Thr	Lys	Ala	11e	Asn	Ile	Leu	Gln			Glu	Asp
74030	7 00	Con	3155		17_ T	7	70.71 -	3160		_	_	_	3165			
74032	ASII	3170	GLU	ьеи	vaı	Arg			Glu	ьуs	Leu			Ala	Ile	Asn
74032	Sor			Con	T	7	3175		m1	~ 1	~ 1	3180			_	
74034	3185	GTII	FIO	ser	теи	Asn										_
74035			T	7) 75 67	7. ~~				70							3200
74036	1111	TIIT	ьуѕ	ALG	3205	Glu	Ата	GIN	Asn			ser	Ser	Ala		
74037	Tlo	Tlo	7 cn	7) cm			7\ ] _	C	<b>-1</b> -	3210		<b>-</b> 1			3215	) _
74038	116	TTE	ASII	3220	ату	Asp	Ата	ser			GIN	тте	Thr			Lys
74039	Tlo	Δνα	U a l			7/1 ~	mb w	7\ ~ ~	3225		7	<b>~</b> 1	~ 7	3230	~ 1	•
74040	116	13T Q	3235	<del>G</del> L U	GIU	Ala	111T.	ASU ASU	нта	ьeu	ASN				GIn	His
74041	Len				Thr	πь∽	802	3240		<b>тъ</b>	C1		3245		_	<b>a</b>
74042	u	3250	a	110P	r 111	Thr	3255	ъeп	πλz	T11T.	вти	val	Arg	ьуѕ	ьeu	ser
74043				Δen	ጥb r	7) cn			T ***	D~~	C ~	3260	T7_ 7	<b>a</b> .	<b>7</b> . 7	
74044	3265	9	о± у	, 10 b	T11T	Asn 3270	uoli	пЛр	пдр	LTO	SOTE	ser	val	ser		
	5200					JZ 1 ()					3275					3280

74045 74046	Asn	Asn	Thr	Ile	His 3285		Leu	Gln	Ser	Glu 3290		Thr	Gln	Thr	Glu 3295	
74047	Ara	Ala	Asn	Thr	Ile		Asn	Lvs	Pro	Ile	Ara	Ser	Val	Glu	Glu	Val
74048	5			3300				<b>4</b> -	3305		,			3310		
74049	Asn	Asn	Ala		His	Glu	Val	Asn			Asn	Gln	Ara			Asp
74050	.1011	11011	3315		1120	02.0		3320					3325			
74051	Thr	Tle			Leu	Gln	Pro			Asn	Lvs	Glu			Lvs	Glu
74052		3330			Dou	0	3335				-1~	3340			-1-	0-4
74053	Ala			Ara	Leu	Glu			Tle	Asn	Glu			Gln	Thr	Asp
74054	3345	_		9		3350		-1-			3355					3360
74055			Thr	Gln	Gln			Glu	Asn	Tvr			Ala	Lys	Ile	Lvs
74056	1				3365					3370				-	3375	
74057	Ala	Gln	Asn	Glu	Ser	Ser	Ile	Ala	Gln	Thr	Leu	Ile	Asn	Asn	Gly	Asp
74058				3380					3385					3390		-
74059	Ala	Ser	Asp	Gln	Glu	Val	Ser	Thr	Glu	Ile	Glu	Lys	Leu	Asn	Gln	Lys
74060			3395					3400					3405			
74061	Leu	Ser	Glu	Leu	Thr	Asn	Ser	Ile	Asn	His	Leu	Thr	Val	Asn	Lys	Glu
74062		3410	)				3415	5				3420	)			
74063	Pro	Leu	Glu	Thr	Ala	Lys	Asn	Gln	Leu	Gln	Ala	Asn	Ile	Asp	Gln	Lys
74064	3425	5				3430	)				3435	·				3440
74065	Pro	Ser	Thr	Asp	Gly	Met	Thr	Gln	Gln	Ser	Val	Gln	Ser	Tyr	Glu	Arg
74066					3445					3450					3455	-
74067	Lys	Leu	Gln		Ala	Lys	Asp	Lys			Ser	Ile	Asn	Asn	Val	Leu
74068				3460					3465					3470		
74069	Ala	Asn			Asp	Val	Asn			Arg	Thr	Asn			Glu	Thr
74070			3475		_		_	3480			_	~-3	3485		<b></b> ,	
74071	Glu			Asn	Asn	Glu			GIn	Ala	Lys			Leu	Thr	Val
74072	_	3490		_	<b>-</b>	7* 7	3495		<b>-</b>	m1	70 71 -	3500		Q1	Q	T
74073	-	_	GIn	Pro	Leu			Ala	ьуs	Thr			GIN	GIN	ser	
74074	3505		a1	D	0	3510		G1	7.6 - 1	m1	3515		mb	т1.	C1 m	3520
74075	Asp	Asn	GIn	Pro	Ser		Thr	СТУ	мет	3530		Ala	THE	тте	3535	
74076	П	7. ~ ~	ת ד ת	Τ	3525		T ***	717	C1,,			T10	Cln	7 cn		
74077 74078	ıyr	ASII	Ala	354(	Arg	GTII	тйг	нта	3545		νат	TTE	GIII	3550		VOII
74078	Tuc	Tla	Tla		Asn	<b>Δ</b> ] =	Gln	Dro			Gln	Gln	Val			Glu
74080	цуз	TTC	3555		ASII	лта	GIII	3560		Val	OIII	0111	3565		7100	014
74081	T.vc	Ser			Glu	Gln	Δla			Glu	Leu	Asn			Lvs	Ser
74082	33 y S	3570	-	v a ı	OLG	0111	3575		001	010	200	3580			-10	-
74083	Ala	-		Ala	Asp	Lvs			Len	Gln	Gln			Asn	Gln	Leu
74084	3585	5	219	11110	ı.op	3590	)	0-0	200	0211	3595	5	- 1 -			3600
74085					Asp											
74086		0		****	3605				-1-	3610					3615	
74087	Tvr	Asn	G1n	Ara	Tyr		Gln	Phe	Ser			Leu	Asn	Ser		
74088	-1-			3620					3625					3630		-
74089	Thr	Asn	Thr		Arg	Ile	Leu	Lys			Asn	Pro	Ser			Asp
74090			3635	_	2			3640					3645			-
74091	Val	Asn			Leu	Asn	Lys			Glu	Val	Gln	Gln	Lys	Leu	Asn
74092		3650					3655		,			3660		_		
74093	Glu			Ala	Leu	Leu			Lys	Glu	Asp	Asn	Ser	Ala	Leu	Val
			_						_		-					

74094	3665				3670	)				3675					3680
74095	Arg Ala	Lvs	Glu	Gln			Gln	Ala	Val			Val	Pro	Ser	
74096	1119 112		02.0	3685					3690					3695	
74097	Glu Gl	, Met	Thr			Thr	Lvs	Asp			Asn	Ser	Lvs	-	
74098	014 01	, 1100	3700		01			3705		- 1 -			3710		
74099	Ala Ala	Gln			Tle	Ser	T.vs			Gln	Val	Tle			Glv
74100	ATA AT	371		OIU	110	DCI	3720		0111	0.2.11	var	3725		11011	011
74100	Asp Ala	_		Gln	Gln	Tla			Δla	Lvs	Thr			Glu	Ara
74101	37.		TIII	OTII	GLII	3735		11011	111α	цуо	3740		Var	Ora	111.9
74102	Ala Lei	-	בות	Len	Aen			T.375	Thr	Glv			Δla	Asn	T.vs
74103	3745	ı Giu	пла	пеα	3750		пта	цуз	1111	3755		111.9	7110	7100	3760
74104	Glu Gli	1 T.011	Gln	Aen			Δan	Gln	T.011			Asn	Tle	Asp	-
74105	GIU GI	л пец	GIII	3765		1 y 1	71511	OIII	3770		04.11	71011	110	3775	
	Ser Gl	, T.,,	Thr			Sar	Tla	Δra			Asn	Glu	Δla		
74107	ser gr	у пуз	3780		лта	DCT	110	3785		ı yı	73511	OLU	3790		501
74108	Arg Ile	. Cln			T10	7 en	Sar			Aen	Glu	Δla			Tle
74109	Arg 11	379		GIII	TIG	Азр	3800		цуз	ASII	GIU	3805		DOL	110
74110	Leu Th			7.00	Dxo	Cln			Cln	V-1	Thr			T.011	Asn
74111	38:		АЗР	HSII	LTO	3815		Ser	GIII	Val	3820		1110	пси	7,011
74112	Lys Il		7.1.	Va I	Cln			T.013	Aen	T.37@			Δla	Mot	T.011
74113	3825	з гух	Ala	Val	3830		GIU	пец	изр	3835		110	711.0	1100	3840
74114	Lys As	. T	C1	7 on			7\] \	Tou	Wa 1			Lare	Gln	Gln	
74115	пуз Аз	т гуз	Giu	3845		Maii	ALA	шеи	3850		ALU	шуз	OIII	3855	
74116 74117	Gln Gl	. Tlo	Val			[cV	Aen	Pro			Glv	Mo+	Thr		
	GIII GI.	1 176	386		Giu	vai	дзр	386		0111	CTY	1100	3870		1155
74118 74119	Thr Al	n Nen			Luc	Sar	T.vc			Glu	Δla	Glu			Tle
74119	IIII AI	387		* A T	шуо	DOI	3880		1119	014	1124	3885			
74121	Gln Ly			Gln	Tle	T1e			Glv	Asp	Δla			Gln	Gln
74121	38		0111	OTII	110	3895		11011	<u>- 7</u>	1101	3900			0	<b></b>
74123	Ile Th		Glu	Thr	Asn			Asn	Gln	Ala			Ala	Ile	Asn
74124	3905	11011	OIU		3910		• • • •			3915					3920
74125	Lys Al	a Lvs	Asn	Asp			Ala	Asp	Lvs			Leu	Glu	Asn	Ala
74126	<b>-</b> 10 112			3925		5			3930					3935	
74127	Tyr As:	n Gln	Len			Asn	Val	Asp	Thr	Asn	Glv	Lvs	Lvs	Pro	Ala
74128	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	. 0211	3941		023			3945				- 1 -	3950		
74129	Ser Il	e Gln			Gln	Ala	Ala	Ara	Gln	Ala	Ile	Glu	Thr	Gln	Tyr
74130	001 11	395		-1-	023-		3960					3965			_
74131	Asn As:		_	Ser	Glu	Ala			Ile	Leu	Glu			Asn	Pro
74132	39		210			3975					3980				
74133	Ser Va		Glu	Val	Ala			Leu	Gln	Lvs			Ala	Val	Gln
74134	3985		0	, 41	3990			~~~		3995					4000
74135	Leu Ly	s Val	Asn	Asp			His	Tle	Leu			Lvs	Glu	Asn	
74136	Lea Ly			4005					4010			1		4015	
74137	Ser Al	a T.e.r	Val			Lvs	Asn	Gln			Gln	Ser	Val		
74137	JOI MI		4020			<u>y</u> 5	1	4025					4030		-
74138	Gln Pr	יום. ד			Glv	Met	ጥኮዮ			Ser	Ile	Asn			Glu
74139	OT11 LT.	403		***	OT A	.100	4040		~P			4045		- 1 -	
74140	Ala Ly			Glu	Ala	Gln			Ile	Ara	Asn			Ala	Val
74142	40		1,011	J_ U		405					4060				
14446	40					1000	-					•			

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74143	Ile Asr	Asn Gl	y Asp	Ala	Thr	Ala	Lys	Gln	Ile	Ser	Asp	Glu	Lys	Ser
74144	4065			407					407	5				4080
74145	Lys Val	. Glu Glı	n Ala	Leu	Ala	His	Leu	Asn	Asp	Ala	Lys	Gln	Gln	Leu
74146			408					409					409	5
74147	Thr Ala	Asp Thi	r Thr	Glu	Leu	Gln	Thr	Ala	Val	Gln	Gln	Leu	Asn	Ara
74148		410	00				410	5				411	0	-
74149	Arg Gly	Asp Thi	Asn	Asn	Lys	Lys	Pro	Arg	Ser	Ile	Asn	Ala	Tyr	Asn
74150		4115				412		_			412		2	
74151	Lys Ala	. Ile Glr	n Ser	Leu	Glu	Thr	Gln	Ile	Thr	Ser	Ala	Lvs	Asp	Asn
74152	413				413					414		-1-		-1011
74153	Ala Asn	. Ala Val	llle	Gln	Lys	Pro	Ile	Ara	Thr	Val	Gln	Glu	Val	Asn
74154	4145			4150					415					4160
74155	Asn Ala	Leu Glr	Gln	Val	Asn	Gln	Leu	Asn			Leu	Thr	Glu	
74156			4165					4170					417	
74157	Ile Asn	Gln Leu	Gln	Pro	Leu	Ser	Asn			Ala	Len	Lvs		
74158		418	30				418		-10 F			419		1114
74159	Arg Leu	Asn Let	Glu	Asn	Lvs	Ile			Thr	Val	Gln			G1 v
74160	3	4195			-1-	420		0211			420.		715p	GLY
74161	Met Thr	Gln Gln	Ser	Ile	Glu			Gln	Asn	Ala	T.VS	Ara	Va 1	<b>Δ</b> 1 =
74162	421	0			421	5	- ]		11011	422		1119	Val	711.0
74163		Glu Ser	Asn	Thr					Tle			Glv	Aen	7/1 -
74164	4225			4230		200		1100	423!		73511	Ory	лзр	4240
74165	Asp Glu	Gln Gln	Ile			Glu	Thr	Asp			Δen	Gln	Gln	7240 Thr
74166	1		4245			014	****	4250		Val	11311	OIII	425	
74167	Thr Asn	Leu Thr			Tle	Asn	Glv			Val	Δen	Tare	Glu	Dro
74168		426	0		220		426		* 111 X	Val	71011	4270		110
74169	Leu Glu	Thr Ala		Thr	Ala	Len			Aen	Tla	Aen			Dro
74170		4275	-10			4280		21011	11011	110	4285		val	FIO
74171	Ser Thr	Asp Gly						Val	Δla	Aen			Gln	Tuc
74172	429		1100		4295		DGT	val	пта	4300		ASII	GIII	гуѕ
74173		Ile Ala	Lvs	Δsn			Δen	Thr	Tlo			17-1	T 011	70.1 -
74174	4305			4310		110	71511		4315		MOII	vaı	ьеu	
74175		Pro Asp				ΤlΔ	Lus				ЛΊα	Clu	7/1-2	4320
74176	11011	110 1100	4325		πτα	116	шуз	4330		гуз	Ата	GIU		
74177	Ard Tle	Ser Asn			Thr	Gln	7/1 =			7 an	T 011	Cln	4335	
74178	90	434		шси	1111	GIII	4345		USII	ASII	пеи			Asp
74179	Thr Gln	Pro Leu		Luc	Tlo	Tttc			T 011	C1 ~	7. ~~	4350		7
74180	IIIE GIII	4355	Giu	цуз	116	4360		GIII	ьеu	GIII			тте	Asp
74181	Gln Gly		Thr	7) an	C1 17			Cln	7.00	C	4365		7)	m
74182	4370	Thr Asn	IIII .	Азр	4375	met	1111	GIII	ASP			Asp	ASI	Tyr
74183			Con				т1 -	C1	т	4380			_	
74184	4385	Ser Leu		дта 4390		тте	тте				гàг	vaı	Asn	
74185		Tue Ara				77-1	C1		4395		<b>~</b> 1	0		4400
74186	теи теп	Lys Arg		LIO	TIIT	val	GIU			глг	GIU	ser		
74187	Asn Ala	Cln Cln	4405	T 1 ^	C1~	7)	T	4410		70 7	70.	m1.	4415	-
74188	Asn Ala			тте	GTII	ASP			ASN	ата	Arg			Leu
74188	Val Das	442		~1	т	C1 -	4425		<b>T</b>	-	_	4430		_ 0
74189	Val Pro	чаь тур	THE.	GTU	ьeu	GIN	GTU	ATG	гуѕ	Asn			GLu	Asn
74190	Con Tic	4435	C1 '	mh		4440		<b>C1</b>	A 6 - '	m1	4445		_	
/ オエジエ	per TTG	Asn Gln	GTU.	TIIT .	Asp	ınr	Asp	чТУ	меt	Thr	GIn	Asp	Ser	Leu

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74192	445	0			4455	5				4460	)			
74193		Tyr Asn	Asn	Lvs			Lvs	Ala	Ara			Leu	Glu	Lvs
74194	4465	111 11011	1100	4470			-1-		4475					4480
74195		Lys Val	T.e.i			Gln	Pro	Thr			Glu	Tle	Ara	
74196	110 001	270 (42	4485		OLY	0111		4490					4495	
74197	Asn Thr	Asp Glu			Δla	His	Lvs			Len	Asp	Thr		
74198	ASII IIIL	450		ASII	лта	1173	4505		nia	шси	пор	4510		mrg
74199	Ser Gln	Leu Thr		Δen	Δκα	Glu			ΤÌΔ	Δsn	His			Δsn
74200	per gru	4515	neu	N311	лту	4520		1 y 1	110	71011	4525		21011	13011
74200	Clu Son	His Leu	7 00	7) cm	7) ] ¬			Λen	Aen	Pho			Gln	V ⊃ l
74201	453		ASII	ASII	4535		шуЗ	лър	MOII	4540		1114	0111	vai
74202		Ala Pro	Λαν	піс			T.011	Glu	Thr		•	Δen	T.379	Δla
74203	4545	AIA FIO	ASII	4550		1111	пеи	Giu	4555		шуз	ASII	шуз	4560
74204		Leu Asn	Cln			Thr	7.1.5	Tan			Sar	Tla	ΛΊα	
74205	Asp III	neu Asii	4565		Mec	TIIL	пта	4570		OLU	DCI	110	4575	
74200	Tur Clu	Asn Gln			Cln	Glu	λen			λen	ΔΙα	Sor		
74207	Tyr Gru	458	_	GIII	GIII	GIU	4585	_	пец	Map	пτα	4590		ASII
74200	Taro Axa	Gln Asp		7.00	7\02	7.7.			717 =	7/15	Tare			Tan
74209	nys Arg	4595	тут	лэр	ASII	4600		HOII	лла	лта	4605		110	шси
74210	Aca Cla	Thr Gln	Sar	Dro	Thr			Nla	7 an	Val			Gln	T.ve
	461		Ser	FIO	4615		DET	ALG	АЗР	4620		дар	GIII	цуз
74212		o Asp Val	Tvc	7) 20 00			Thr	7.1 -	Lou			Aen	Gln	Λrα
74213	4625	Asp var	пур	4630		пуз	1111	Ala	4635		Gry	USII	GIII	4640
74214 74215		Val Ala	Trro			717 ~	T 011	λαη			Λcn	Thr	T 011	
74215	Ten Gin	vai Aia	дуз 4645		Gill	мта	пец	4650		Бец	ASII	1111	4655	
74210	Aco Tou	Asn Asp			λνα	Gln	ጥኮኮ			Aen	Thr	Tla		
74217	Asp neu	466		GIII	Arg	OTII	4665		1111	лор	1111	4670		1120
74218	Sor Pro	Asn Ile		Sar	Ual	Λen			T.379	Glu	T.vc			Thr
74219	per 110	4675	ASII	Der	Val	4680		111.α	шуо	Ora	4685		11011	
74221	Wal Aen	Thr Ala	Mot	Thr	Gln			Gln	Thr	Tle			Tur	Asn
74221	469		2321	1111	4695		<b>-</b> 175	01.11	****	4700		11011	- <u>y</u> -	TIOP
74223		Leu His	Asn	Glv			Tle	Asn	Ala			Asp	Lvs	Lvs
74224	4705	Dou mao	1100	4710		- <u>y</u> -			4715		-10		-1-	4720
74225		Tyr Asn	Asn			Asn	Asn	Ala			Len	Tle	Asn	
74226	mbp ma	1 7 1 11811	4725		V 44 2	11011	11011	4730		0111	<u> </u>		4735	_
74227	Ser Asn	Ala Asn			Gln	Len	Asp			Glu	Tle	Asn		
74228	DCI 710P	474		2114	0,1,1,	200	4745		1114			4750		
74229	Thr Gln	Arg Val		Thr	Thr	Lvs			Len	Asn	Glv	_		Lvs
74230	1111 0111	4755	11011	1111	1111	4760		21012	±Cu.		4765		1101	232
74231	I.e.i Δla	Glu Ala	Lvs	Ara	Asn			Thr	Thr	Tle			Len	Thr
74232	477		дув	*11-9	4775		1 1011			4780			200	
74232		Asn Glu	Δ1 a	Gln			Lvs	Ala	Tays			Va 1	Glv	Lvs
74233	4785	11011 014	2110	4790		-1011	10		4795				<u>y</u>	4800
74234		Thr Lys	Thr			Thr	Ser	Gln			Asp	Tvr	Asn	
74235	.114 001	טעט בייי	4805		-20	****	~~-	4810			p	~ <u>y</u> ~	4815	
74236	Len Asn	Ile Ala			Ala	T.em	Ara			Val	Asn	Asn		
74237	nea mon	482		O 1 1 1		Lou	4825		~~x	* U.I	, 1011	4830		- 11.
74236	Asn Val	Lys Ala		Ser	Asn	Tur			Glu	Aan	Asn			Lvs
74239	11011 V Q.L	4835	11011	201	. 1.011	4840		- 1011	Jiu	-101	4845	-		~,~
, 1210		1000				101(	•				1010	,		

74241 74242	Glu	Ala 4850	-	Asn	Gln	Ala	Val 4855		His	Ala	Gln	Thr 4860		Ile	Asn	Ala
74243		Ser		Pro	Glu	Met 4870	Ser		Asp	Val	Val 4875	Asn		Lys	Thr	Gln 4880
74244 74245	4865 Ala		Asn	Thr	Ala			Asn	Leu	His			Gln	Lvs	Leu	
74246					4885	5				4890	)				4895	5
74247	Gln	Ala	Gln		Ser	Ala	Asn	Thr			Gly	Asn	Leu			Leu
74248				4900			_	~ 7	4905		_		_	4910		<b>~</b> 3
74249 74250	Thr	Asn	Thr 4915		Lys	Ala	Lys	G1u 4920		GLu	Leu	Val	Asn 4925		гля	GIn
74250	Thr	7120			Val	Gln	Glu			Aen	Gln	Δla			T.e.11	Asn
74251	111,1.	4930		Ola	Val	0111	4935		БСи	11011	0,111	4940		OCI	100	пор
74253	Ser	Ser	Met	Gly	Thr	Leu	Lys	Ser	Leu	Val	Ala	Lys	Gln	Pro	Thr	Val
74254	4945			•		4950					4955					4960
74255	Gln	Lys	Thr	Ser	Val	Tyr	Ile	Asn	Glu	Asp	Gln	Pro	Glu	Gln	Ser	Ala
74256					4965	5				4970	)				4975	5
74257	Tyr	Asn	Asp	Ser	Ile	Thr	Met	Gly	Gln	Thr	Ile	Ile	Asn	Lys	Thr	Ala
74258				4980					4985					4990		_
74259	Asp	Pro			Asp	Lys	Thr			Asp	Asn	Ala			Asn	Ile
74260			4995					5000				_	5005			
74261	Ser		_	Glu	Asn	Ala			Gly	Glu	Gln			Thr	'l'hr	Ala
74262	_	5010			- 1		5015		70.	m1	<b>T</b>	5020		т	70	m1
74263	-		GLu	ATa	Ile			Leu	Asn	Thr			Asp	теп	Asn	
74264	5025		T	01	Ala	5030	-	m1	7. 7	T1.	5035		70.71.0	m.	mb x	5040
74265	Pro	GIII	цуѕ	GIU	5045		тух	TIII	AIG	5050		1111	AId	птъ	5055	
74266 74267	Thr	Aen	Ta1	Thr	Ala		Gln	Ser	T.vs			Gln	Tle	Asn		
74267	1111	АЗР	,vaı	5060		GIU	GIII	Der	5065		11311	OIII	110	5070		1114
	Met	His	Thr		Arg	Gln	Asn	Tle			Asn	Glu	Ser			Asn
74270			5075		9	022		5080					5085			
	Glu	Ser			Ile	Asn	Ala			Glu	Lys	Gln	His	Ala	Phe	Thr
74272		5090		- 2			5099				-	5100				
74273	Glu	Ala	Leu	Asn	Asn	Ala	Lys	Glu	Ile	Val	Asn	Glu	Gln	Gln	Ala	Thr
74274	5105	5				5110	)				5115	5				5120
74275	Leu	Asp	Ala	Asn	Ser	Ile	Asn	Gln	Lys	Ala	Gln	Ala	Ile	Leu	Thr	Thr
74276					5125					5130					5135	
	Lys	Asn	Ala		Asp	Gly	Glu	Glu			Arg	Arg	Ala			Asn
74278				5140					5145					5150		_
	Ala	Asp			Ile										Gln	Arg
74280	_	_													<b>a</b> 1	7
74281	Asn			Lys	Gly	Leu			Ser	Ser	GIn			Thr	GLu	Va⊥
74282	<b>73.</b> 3	5170		-	70.7	<b>.</b>	5175		01	T	70	5180		Mada	01	01-
74283			GIn	Leu	Ala			ьуs	GIU	Leu			val	мет	GIU	5200
74284	5185		II da	T 011	T10	5190		T ***	7 an	Cln	5195		71.00	Cor	Cor	
74285	ьeu	ASII	нтг	ьeu	Ile 5205		σтλ	гЛг	ASII	5210		тте	HSII	Ser	5215	
74286 74287	Dha	T1a	7) cm	Glu	Asp		Den	Cln	Gln			Τυν	Ser	Aen		
74288	E II G	TTE	MOII	5220		пта	UOII	G-11	5225		1-J T CI	- Y -	OGL	5230		110
	Δla	Ser	ΔΙα		Ala	T.eu	Lus	Asp			Gln	Asn	Pro			Asp
13403	17.1 a	2GT	$\Delta T a$	GIU	, 1 T C	ப்ப	пдр	וומת	T A 2	DUL	-111	-1011	110	Jiu	س ت	110 P

74290			523	5				524	n				524	5		
74291	Lvs	Va1			Glu	Gln	Ala			Asn	Τlם	Aen			Tlo	71.02
74292		525		0	01.0	0111	525		11011	. 11011	110	526		лта	116	ASII
74293	Asn	-	-	Glv	G111	Δla	Lys		Thr	T.ve	ב [ מ			7 cm	תות	17-1
74294	526		11011	Ox y	01.4	527		пси	1111	пуз	527		Giu	Asp	Ала	
74295			T۱۵	Agn	Asn		Ser	G1 v	Lau	Thr			C1 ~	Tira	Пhх	5280
74296	2114	DCI	110	21311	528		Ser	оту	пеи	529		GIU	GIII	тЛЯ		••
74297	Glu	Δsn	Gln	<b>Z</b> .l.s			Gly	λ1 ¬	Cln			7) are	C1 5	77-1	529	
74298	Oru	11011	OTH	530		Maii	сту	нта	530		ALG	ASP	GTII			Asn
74299	T.vc	T.211	Δra			Clu	Ala	Τ 011			Com	Mat	C1	531		7)
74300	шуз	пеа	531		Ата	GIU	Ата	532		GTII	ser	мес			ьeu	Arg
74301	Zen	T.A.11			7 cn	Cln	Nan			II i a	Con	mh m	532		т	DI.
74302	ASP	533		ASII	MOII	GIII	Asn 533		TIE	птѕ	ser			ASI	Tyr	Pne
74302	Δen			Sor	Thr	Cln	Lys		mb~	m	7\ ~~	534		т1.	71	70
74304	534		лэр	Ser	TIIT	535		ASII	TIIT	тут			Ата	тте	Asp	
74305			ሞh.∽	Ψ.τ.rc	Tlo			Cln	изо	7\ ~~	535		T	7\	T	5360
74306	Gry	ser	TIIL	тут	536		Gly	GIII	птѕ			GIU	ьeu	Asn	_	
74307	Thr	Tlo	7. cm	Cln			Cor	7\ ~~~	Tlo	537		71.7.	T	7	537.	
74308	1111	TIG	ASP	538		тте	Ser	Arg	538		Thr	Ата	гуѕ		_	Leu
74309	цiс	Clu	17-1			Ton	Cl n	7\~~			C1	m1	70 7 -	539		01
74310	птэ	СТУ	539		гуу	ьeu	Gln			ьуѕ	СТА	Thr			GIn	GLu
74310	т1.	C1.,			C1	П	T 0	540		D	C1	т	540		<b>~</b> 1	<b>~</b> 1
74311	116	541(		цеu	GTÀ	туг	Leu 541!		Asp	PIO	GIII	_		ету	GIU	GIU
74312	Sar		-	7\ an	C1.	Cor		-	7\	C	C1	5420		Q1	11.2	T
74314	542		vaı	HSII	gry	5430	Asn	1111	Arg	ser	543!		GIU	GIU	HIS	
74315			Δla	Tave	Sar		Asn	Λan	71-	Mo+			T 0.11	7\ 20.00	7. ~~	5440
74316	71511	OLU	пта	шуз	544!		MSII	ASII	ATG	5450		GIII	ьеи	Arg	545!	_
74317	Val	Δla	Glu	T.576			Val	T 170	Cln			7. 00	П	Tla		_
74318	Val	лта	GIU	5460		ASII	vai	пуъ	546		ser	ASP	тут	5470		Asp
74319	Ser	Thr	Glu			Δra	Gly	ጥ፣፣ም			712	Tou	Cln			C1,,
74320	OCI	****	547		OTII	my	оту	5480		Gin	лта	пеп	548!		ALA	GIU
74321	Asn	Tle			Glu	Tle	Gly			ጥb r	Lan	7) en			Clu	T10
74322	21011	5490		11011	OLU	110	5495		110	1111	пец	5500		Ser	GIU	TTE
74323 ·	Glu			T.em	Gln	Gln	Leu		Asn	Δla	Gln			Leu	Gln	Glv
74324	5505		22,2		0111	5510		****	2300	2.114	5515		111u	шец	OTIL	5520
74325			Leu	Leu	Glu		Ala	Lvs	Asn	Asn			Thr	Glv	Tle	
74326					5525		****	Lyo	21011	5530		110	1111	OTA	5535	
74327	Lvs	Leu	Thr	Ala			Asp	Ala	Gln			Lvs	Δla	Tle		
74328	-1-			5540		11011			5545		0111	Lyb,	2114	5550		71511
74329	Val	Gln	Ala			Thr	Ile	Pro			Asn	Gln	Gln			Len
74330		V	5555		02		110	5560			11011	0111	5565		1111	пса
74331	Asp	Ara			Asn	Thr	Ala			Δla	Len	Δrα			Val	G1 17
74332		5570		-20		~	5575		V-11		u	5580		Lys	v u ı	O ± y
74333	G] n			Asn	٧a٦	His	Gln		Ser	Asn	Tur			Glu	Asn	Glu
74334	5585			-1011	• 41	5590		U _ 11	~~		5595		- 17011	JLU	1101	5600
74335			Lvs	His	Asn		Asp	Asn	Ser	Val			Glv	Gln	Thr	
74336	V-11		_y 5		5605		-10P	2 2 0 1 1	~~_	5610		та	оту	27.11	5615	
74337	Ile	Asn	Lvs	T.eu			Pro	T10	Met			Δan	Glu	Tla		
74338			_,,0	5620		Ъ			5625		ມາວ	11011	JIU	5630		111
				J J Z C	•				5 5 2 5	•				5050	•	

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74339	Ala	Ile			Ile	Asn	Thr			Thr	Ala	Leu		_	Glu	Asn
74340	_	<b>.</b>	5635			<b>G</b> 3	<i>a</i> :	5640		70	70	<b>01.</b>	5645		<b>C</b> 1	_
74341	гуѕ			THE	Asp	Gln			THE	ASII	Arg			GIU	GIĀ	ьeu
74342	0	5650		7. ~	ml	70.1	5655		7\ ~ ~	71.0	C1	5660		T 013	57-7	7
74343			ьeu	Asn	rnr	Ala		тте	ASII	Ala		_	Asp	ьeu	val	
74344	5665		~	m1	70	5670		*** 7	70.7 -	C1	5675		70.71	70.7	70.71	5680
74345	GIN	Ата	гàг	Thr	_	Thr	Asp	vai	Ата			ьеи	Ата	Ата		_
74346	<b>~</b> 1	~- 1	-		5685		~	<b>T</b>	<b>-</b>	5690		<b>~</b> 1	~ 7	G1 -	5695	
74347	GLu	TTE	Asn			Met	Ser	Asn			Asp	GTÀ	тте			гàг
74348	~ l		~ 7	5700			<b>a</b>	70.71	5705		70	m 7 _	70	5710		T
74349	GIU	Asp			Arg	Ser	Ser			тте	Asn	Ата			Thr	гàг
74350		m1	5715		70	<b>G</b> 1	7.7	5720		70	70 T _	<b>a</b> 1	5725		T 1 -	70
74351	vaı			Tyr	Asp	Gln			GIN	Asn	Ата			тте	тте	Asn
74352		5730		70	** 1	~ 1	5735		<b>-</b>	70.7	m\-	5740		01.	m 7 -	T -
74353			Pro	Asn	vaı	Glu		Asn	ьуs	Ala			GIU	GIN	Ата	
74354	5745		1	~ 1	<b>~</b> 1	5750		~1	_	_	5755		** 7	~1	<b>~</b> 1	5760
74355	Ser	Arg	Val	GIn		Ala	GIn	GIn	Asp			GTĀ	vaı	GIn		
74356	~ ~	_	~ 7	-	5765			m1	<b>~</b> 1	5770		<b>.</b>	<b>~</b> 1	<b>T</b>	5775	
74357	Ala	Asn	Ala	-		Gln	Ala	Thr			Val	Asn	GLY			Ser
74358	_	_	_	5780		_	_	~-	5785		_	_	1	5790		
74359	Leu	Asn	_	-	GIn	Lys	Arg			Asn	Leu	Leu			Ser	Ala
74360	_		5795		_		~ 3	5800		_	_	_	5805		~ 1	_
74361	Asn		-	Thr	Lys	Val			Glu	Leu	Asn	-		Thr	GLu	Leu
74362	_	5810					5815		_	_		5820			_	~ 1
74363			Ala	Met	Glu	Ala		Arg	Asn	Ser			Asn	Val	Asp	
74364	5825		~-3	_	_	5830			_	~ 7	5835		_	~ 3	<b>~</b> 1	5840
74365	Val	Lys	Gin	Ser		Asn	Tyr	Va⊥	Asn			GIn	Pro	GLu		
74366	_	_	_	_	5845		_	~ 3		5850			e	_	5855	
74367	Asn	Tyr	Asp			Val	Asn	Glu			Ala	Thr	lle			Asn
74368			_	5860		_	_		5865		~ -	_	_	5870		m1
74369	Ala	GIn			Leu	Asp	Lys			TTE	GLu	Arg			Gin	Thr
74370		_	5875		-	_	<b>-</b> 1	5880		<b>G</b> 1		~1	5885		m1	<b>G</b> 1
74371	Val			Thr	гÀг	Asp			His	GTA	Ala			Leu	Thr	Gin
74372	_	5890	}					-								
74373		~ 7			~ ~	~ 3	5895		T 1	20	<b>~</b> 3	5900		0	Ŧ	70
- · · · ·	-			Ala	Ala	Glu	Thr		Ile	Arg	_	Leu		Ser	Leu	
74374	5905	5	Gln			5910	Thr )	Gly			5915	Leu	Thr			5920
74375	5905	5	Gln		Asn	5910 Ala	Thr )	Gly		Lys	5915 Val	Leu	Thr		Thr	5920 Thr
74375 74376	5905 Glu	Pro	Gln Gln	Lys	Asn 5925	5910 Ala	Thr ) Glu	Gly Val	Ala	Lys 5930	5915 Val )	Leu Thr	Thr Ala	Ala	Thr 5935	5920 Thr
74375 74376 74377	5905 Glu	Pro	Gln Gln	Lys Val	Asn 5925 Arg	5910 Ala S Asn	Thr ) Glu Ile	Gly Val Arg	Ala Gln	Lys 5930 Glu	5915 Val ) Ala	Leu Thr Thr	Thr Ala Thr	Ala Leu	Thr 5935 Asp	5920 Thr i Thr
74375 74376 74377 74378	5905 Glu Arg	Pro Asp	Gln Gln Glu	Lys Val 5940	Asn 5925 Arg )	591( Ala 5 Asn	Thr ) Glu Ile	Gly Val Arg	Ala Gln 5945	Lys 5930 Glu	5915 Val ) Ala	Leu Thr Thr	Thr Ala Thr	Ala Leu 5950	Thr 5935 Asp	5920 Thr Thr
74375 74376 74377 74378 74379	5905 Glu Arg	Pro Asp	Gln Glu Leu	Lys Val 5940 Gly	Asn 5925 Arg )	5910 Ala S Asn	Thr ) Glu Ile	Gly Val Arg Ser	Ala Gln 5945 Ile	Lys 5930 Glu	5915 Val ) Ala	Leu Thr Thr	Thr Ala Thr Asn	Ala Leu 5950 Asp	Thr 5935 Asp	5920 Thr Thr
74375 74376 74377 74378 74379 74380	5905 Glu Arg Ala	Pro Asp Met	Gln Glu Leu 5955	Lys Val 5940 Gly	Asn 5925 Arg ) Leu	5910 Ala Asn Arg	Thr ) Glu Ile Lys	Gly Val Arg Ser 5960	Ala Gln 5945 Ile	Lys 5930 Glu Lys	5915 Val ) Ala Asp	Leu Thr Thr Lys	Thr Ala Thr Asn 5965	Ala Leu 5950 Asp	Thr 5935 Asp Thr	5920 Thr Thr
74375 74376 74377 74378 74379 74380 74381	5905 Glu Arg Ala	Pro Asp Met Ser	Gln Glu Leu 5955 Ser	Lys Val 5940 Gly	Asn 5925 Arg ) Leu	591( Ala 5 Asn	Thr Glu Ile Lys Asn	Gly Val Arg Ser 5960 Glu	Ala Gln 5945 Ile	Lys 5930 Glu Lys	5915 Val ) Ala Asp	Leu Thr Thr Lys Gln	Thr Ala Thr Asn 5965 Gln	Ala Leu 5950 Asp	Thr 5935 Asp Thr	5920 Thr Thr
74375 74376 74377 74378 74379 74380 74381 74382	5905 Glu Arg Ala Asn	Pro Asp Met Ser 5970	Gln Glu Leu 5955 Ser	Lys Val 5940 Gly b Lys	Asn 5925 Arg ) Leu Tyr	5910 Ala Asn Arg	Thr Glu Ile Lys Asn 5975	Gly Val Arg Ser 5960 Glu	Ala Gln 5945 Ile ) Asp	Lys 5930 Glu Lys His	5915 Val Ala Asp	Leu Thr Thr Lys Gln 5980	Thr Ala Thr Asn 5965 Gln	Ala Leu 5950 Asp Gln	Thr 5935 Asp Thr	5920 Thr Thr Lys
74375 74376 74377 74378 74379 74380 74381 74382 74383	5905 Glu Arg Ala Asn Asp	Pro Asp Met Ser 5970 Asn	Gln Glu Leu 5955 Ser	Lys Val 5940 Gly b Lys	Asn 5925 Arg ) Leu Tyr	5910 Ala Asn Arg Ile Asn	Thr O Glu Ile Lys Asn 5975 Ala	Gly Val Arg Ser 5960 Glu	Ala Gln 5945 Ile ) Asp	Lys 5930 Glu Lys His	5915 Val Ala Asp Asp	Leu Thr Thr Lys Gln 5980 Asp	Thr Ala Thr Asn 5965 Gln	Ala Leu 5950 Asp Gln	Thr 5935 Asp Thr	5920 Thr Thr Lys Tyr
74375 74376 74377 74378 74379 74380 74381 74382 74383 74384	5905 Glu Arg Ala Asn Asp 5985	Pro Asp Met Ser 5970 Asn	Gln Glu Leu 5955 Ser	Lys Val 594( Gly b Lys Val	Asn 5925 Arg Leu Tyr	Asn Arg Ile Asn 5990	Thr ) Glu Ile Lys Asn 5975 Ala	Gly Val Arg Ser 5960 Glu Gln	Ala Gln 5945 Ile Asp Gln	Lys 5930 Glu Lys His	5915 Val Ala Asp Asp Ile 5995	Leu Thr Thr Lys Gln 5980 Asp	Thr Ala Thr Asn 5965 Gln Glu	Ala Leu 5950 Asp Gln	Thr 5935 Asp Thr Ala	Thr Lys Tyr Ala
74375 74376 74377 74378 74379 74380 74381 74382 74383 74384 74385	5905 Glu Arg Ala Asn Asp 5985	Pro Asp Met Ser 5970 Asn	Gln Glu Leu 5955 Ser	Lys Val 5940 Gly Lys Val	Asn 5925 Arg Leu Tyr Asn	Asn Arg Ile Asn 5990 Thr	Thr ) Glu Ile Lys Asn 5975 Ala	Gly Val Arg Ser 5960 Glu Gln	Ala Gln 5945 Ile Asp Gln	Lys 5930 Glu Lys His Val	Asp Asp Ile 5995 Ala	Leu Thr Thr Lys Gln 5980 Asp	Thr Ala Thr Asn 5965 Gln Glu	Ala Leu 5950 Asp Gln	Thr 5935 Asp Thr Ala Gln	Thr Lys Tyr Ala 6000 Gln
74375 74376 74377 74378 74379 74380 74381 74382 74383 74384	S905 Glu Arg Ala Asn Asp 5985 Thr	Pro Asp Met Ser 5970 Asn Leu	Gln Glu Leu 5955 Ser Ala Ser	Lys Val 5940 Gly Lys Val Ser	Asn 5925 Arg Leu Tyr Asn Asp	Asn Arg Ile Asn 5990 Thr	Thr Glu Ile Lys Asn 5975 Ala Ile	Gly Val Arg Ser 5960 Glu Gln Asn	Ala Gln 5945 Ile ) Asp Gln	Lys 5930 Glu Lys His Val Leu 6010	Val Val Ala Asp Asp Ile 5995 Ala	Leu Thr Thr Lys Gln 5980 Asp	Thr Ala Thr Asn 5965 Gln Glu Ala	Leu 5950 Asp Gln Thr	Thr 5935 Asp Thr Ala Gln Thr 6015	Thr Lys Tyr Ala 6000 Gln

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74388		602	0	•	6025		603	30
74389	Ser Ala			e Ala Glr		Asn Leu		Ala Gln
74390		6035		604		200	6045	1110 0111
74391	Lvs His	Met Glu	Asp Ser			ı Glu Ser		Thr Gln
74392	6050			6055		606	-	1112 0211
74393	Val Gln	His Asp	Leu Thr		Gln Ala			Met Gly
74394	6065		607			6075	Ory nec	6080
74395		Lvs Glu			Tur Thr		Val Ser	Asn Gly
74396			6085		609		var ber	6095
74397	Asn Tyr	Tle Asp		Pro Ser			Tur Aer	
74398		6100		- 110 001	6105	Ozn ma	611	
74399	Val Gln			Tle Tle		Thr Asn		
74400		6115	0111 1101	612		1111 7511	6125	, THIT ITE
74401	Asn Lys		Val Thr			Thr Val		The Luc
74402	6130		VG1 1111	6135	1111. G11	614		тит пув
74403	Asp Ala		Gly Asr		Len Clu			Nan Nla
74404	6145	nea mpp	615		Ted GIG	6155	nys Asii	6160
74405	Asn Gln	Thr Ile			Asp Lou		Ala Cla	
74406	71511 (111	1117 116	6165	ned per	617		Ara Gin	. дуз Asp 6175
74407	Ala Glu	Lve Aen		Asn Ser			Clu Cla	
74408	mia dia .	6180		ASII SEI	6185	IIII Leu		
74409	Gln Asn			Gln Gln		Nan Na	619	
74410		6195	1111 7110	620		ASII ALA	6205	сти теа
74411	Arg Gln		Ala Luc			True 701a		T.v.o. Illino
74412	6210	DOI IIC	ита пуз	6215	GIII Vai	622	_	тур туг
74413	Leu Asn (	Glu Aen	Pro Gla		Cln Agn			7701 Clm
74414	6225	014 115P	623		GIII ASII	6235	нър нта	6240
74415	Arg Val (	Glu Thr			Thr Clr		Clu Ton	
74416	ring van v	ora iii	6245	ASII GIU	625		Gia rea	цеи шуз 6255
74417	Ala Asn	Tle Asn		Thr Gla			Ala Clu	
74418		6260		1111 0211	6265	GIII ASII	627	
74419	Leu His (			Leu Aen		Lye Cln		
74420		6275	ота пур	628		nys Gin	6285	ser int
74421	Glu Leu A		Leu Thr			Ala Cln		Tye Tou
74422	6290	TOP OIL	200 1112	6295	IIII MSp	6300		nas nea
74423	Arg Glu (	Gln Tle	Asn Thr		Ser Ara			Cln Ive
74424	6305	0111 110	631		ber Arg	6315	тте пло	6320
74425	Ile Glu (	Gln Ala		-	Asn Ala		Luc Lou	
74426	110 014 0	JIII III.U	6325	nea Asii	633		тур теп	6335
74427	Gln Val A	Ala Gln		Gly Val			Aen Tur	Thr Asn
74428	Cin vai i	6340		Gry Var	6345	ven ser	635	
74429	Glu Asp S			Asp Ala		Nan Ala		
74430		6355	оти пур	6360		wan ura	6365	GIII AId
74431	Glu Asp I		Aen Aen			Aen Tou		Cln 7cn
74432	6370	LLC LLC	TIOU UOII	6375	11011 ETO	6380		GIII ASP
74433	Ile Thr A	Agn Ala	Tan Dan		Luc Cln			Ton Wis
74434	6385	min Mid	639		nas GIII	6395	vah vau	Leu ніs 6400
74435	Gly Ala G	Iln Isra			Twe New		7 an Cl-	
74436	ory Ara C		6405	Grii vəb			MSH GIN	
, 1300			0400		641	J		6415

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74437 74438	Gly	Asn	Leu	Asn 6420	His	Leu	Asn	Gln	Pro 6425		Lys	Asp	Ala	Leu 6430		Gln
74439	Ala	Ile	Asn		Ala	Thr	Ser	Arg			Val	Ala	Glu			Lys
74440			6435	5				6440	)				6445	5		
74441	Glu	Ala	Glu	Ala	Leu	Asp	Glu	Ala	Met	Lys	Gln	Leu	Glu	Asp	Gln	Val
74442		6450	)				6455	5				6460	)			
74443	Asn	Gln	Asp	Asp	Gln	Ile	Ser	Asn	Ser	Ser	Pro	Phe	Ile	Asn	Glu	Asp
74444	6465	5				6470	)				6475	<u>;</u>				6480
74445	Ser	Asp	Lys	Gln	Lys	Thr	Tyr	Asn	Asp	Lys	Ile	Gln	Ala	Ala	Lys	Glu
74446					6485	5				6490	)				6495	5
74447	Ile	Ile	Asn	Gln	Thr	Ser	Asn	Pro	Thr	Leu	Asp	Lys	Gln	Lys	Ile	Ala
74448				6500	)				6505	5				6510	)	
74449	Asp	Thr	Leu	Gln	Asn	Ile	Lys	-		Val	Asn	Asn	Leu	His	Gly	Asp
74450			6515					6520					6525			
74451	Gln			Ala	Gln	Ser			Asp	Ala	Asn	Asn	Gln	Leu	Asn	His
74452		6530					6535					6540				
74453		_	Asp	Leu	Thr			Gln	Lys	Asn			Lys	Pro	Leu	
74454	6545		_	_		6550				_	6555		_			6560
74455	Asn	Asn	Ala	Asp	Thr	_	Asp	Glu	Val			Gln	Leu	Glu		
74456				_	6565					6570		_			6575	
74457	Lys	Gln	Leu		Gly	Asp	Met	Ser			His	Lys	Val			Asp
74458	_	_	~ 1	6580			_	~	6585			_	<b>7</b> . 7	6590		
74459	Lys	Asp			Gln	His	Leu			Tyr	TTe	Asn		_	Asn	Asp
74460	т	T	6595		m	7	7\ ~	6600		T	C1	71 7 -	6605		Т олг	т1.
74461	Lys	_		Asn	Tyr	Asp			тте	ьуѕ	GIU			Asp	ьeu	ile
74462	11 4 0	6610		Dwo	7\ ~~	Th w	6615		II i o	T	7/1-	6620		7. an	T 011	T 011
74463	6625		HIS	PIO	Asp	6630		ASP	HIS	туз	6635		GIII	ASP	ьeu	6640
74464			Tla	7.00	Gln			7 cn	C1,,	T 011			Glu	Son	λνα	
74465 74466	ASII	гуз	тте	АБР	6645		пто	ASII	GLU	6650		СΙУ	GIU	Ser	6655	
74467	Luc	Gln	Δla	T.011	Asp		Δla	T. 🗕 11	Asn			Δsn	Ser	T.e.11		
74468	цуз	0.1.11	пта	6660		21511	n.a	пси	6665		110	7100	DCI	6670		001
74469	Len	Asn	Val		Gln	Ara	Gln	Thr			Asp	Asn	Tle			Val
74470	200	110	6675		0	9	02.1	6680		270	LLOF	11011	6685			
74471	Thr	Thr			Ser	Leu	Ala			Leu	Gln	Lvs			Glu	Leu
74472		6690					6695					6700		_		
74473	Asn			Met	Lys	Ala	Met	Arq	Asp	Ser	Ile	Met	Asn	Gln	Glu	Gln
74474	6705	_				6710		_	-		6715					6720
74475	Ile	Arq	Lvs	Asn	Ser	Asn	Tyr	Thr	Asn	Glu	Asp	Leu	Ala	Gln	Gln	Asn
74476					6725											
74477	Ala				Ala											
74478		-		6740			-	_	6745					6750		_
74479	Asn	Ala	Thr	Met	Asp	Pro	Gln	Ile	Ile	Lys	Gln	Ala	Thr	Gln	Asp	Ile
74480			6755		-			6760		_			6765			
74481	Asn	Thr	Ala	Ile	Asn	Gly	Leu			Asp	Gln	Lys			Asp	Ala
74482		6770				_	6775		_	-		6780				
74483	Lys	Thr	Asp	Ala	Lys	Gln	Gln	Ile	Thr	Asn	Phe	Thr	Gly	Leu	Thr	Glu
74484	6785	<u>.</u>				6790	)				6795	<u>,</u>	-			6800
74485	Pro	Gln	Lys	Gln	Ala	Leu	Glu	Asn	Ile	Ile	Asn	Gln	Gln	Thr	Ser	Arg

74486					6805	5				6810	)				6815	5
74487	Ala	Asn	Val	Ala			Leu	Ser	His			Phe	Leu	Asn		
74488				6820	_				6825		_			6830	_	-4
74489	Met	Glu	Glu	Leu	Lvs	Val	Ala	Val	Ala	Lvs	Ala	Ser	Leu	Val	Arq	Gln
74490			6835		1			6840		4			6845		_	
74491	Asn	Ser	Asn	Tvr	Ile	Asn	Glu	Asp	Val	Ser	Glu	Lvs	Glu	Ala	Tyr	Glu
74492		6850		1			6855					6860			,	
74493	Gln			Ala	Lvs	Glv			Ile	Ile	Asn	Ser	Glu	Asn	Asn	Pro
74494	6865				1	6870					6875					6880
74495			Ser	Ser	Thr			Asn	Arg	Thr			Glu	Ile	Asn	
74496			~		6888				9	6890					6895	
74497	Ala	Glu	Gln	Asn			Glv	Asp	Asn			Ara	Gln	Ala		
74498		<b>-</b>	•	6900			1		6905			5		6910		
74499	Tle	Ala	Lvs			Ile	Gln	Asn	Leu		Glv	Leu	Asn			Gln
74500			6915				·	6920		1-	1		6925			
74501	Ile	Thr			Ile	Gln	Asp		Gly	Ara	Thr	Thr			Pro	Ala
74502		6930				0	6935		1	5		6940		2		
74503	Val			Lvs	Len	Glu			Lys	Ala	T1e			Ala	Met.	Gl n
74504	6945		02.11	275	шоа	6950		1.110	-10		6955					6960
74505			Lvs	Gln	Ser			Asp	Lys	Asp			Leu	Asn	Ser	
74506	01		20,0	Q	6965			1.01	_10	6970		2			6975	
74507	Asn	Tvr	Leu	Asn			Ser	Glu	Lys	Lvs	Leu	Ala	Tvr	Asp		
74508		- 1 -	200	6980		11010			6985	_			- 1 -	6990		
74509	Va l	Ser	Gln			Gln	Leu	Ile	Asn		Leu	Asn	Asp			Met
74510			6995					7000					7009			
74511	Asp	Ile			Ile	Gln	Ala		Thr	Gln	Lvs	Val			Ala	Lvs
74512		7010					7015				_	7020				-
74513	Asp			His	Glv	Ala	Asn	Lvs	Leu	Ala	Gln	Asn	Gln	Ala	Asp	Ser
74514	7025				-	7030		-			7035				-	7040
74515			Ile	Ile	Asn	Gln	Ser	Thr	Asn	Leu	Asn	Asp	Lys	Gln	Lys	Gln
74516					7045					7050		-	••		7055	
74517	Ala	Leu	Asn	Asp	Leu	Ile	Asn	His	Ala	Gln	Thr	Lys	Gln	Gln	Val	Ala
74518				7060					7065			_		7070		
74519	Glu	Ile	Ile	Ala	Gln	Ala	Asn	Lys	Leu	Asn	Asn	Glu	Met	Gly	Thr	Leu
74520			7075					7080					7085			
74521	Lys	Thr	Leu	Val	Glu	Glu	Gln	Ser	Asn	Val	His	Gln	Gln	Ser	Lys	Tyr
74522	-	7090	)				7095	5				7100	)			
74523	Ile	Asn	Glu	Asp	Pro	Gln	Val	Gln	Asn	Ile	Tyr	Asn	Asp	Ser	Ile	Gln
74524	7105	5		_		7110	)				7115	5				7120
74525	Lys	Gly	Arg	Glu	Ile	Leu	Asn	Gly	Thr	Thr	Asp	Asp	Val	Leu	Asn	Asn
74526	-	_	-		7125			-		7130					7135	
74527	Asn	Lys	Ile	Ala	Asp	Ala	Ile	Gln	Asn	Ile	His	Leu	Thr	Lys	Asn	Asp
74528		_		7140					7145					7150		
74529	Leu	His	Gly	Asp	Gln	Lys	Leu	Gln	Lys	Ala	Gln	Gln	Asp	Ala	Thr	Asn
74530			7155			-		7160					7165			
74531	Glu	Leu			Leu	Thr	Asn	Leu	Asn	Asn	Ser	Gln	Arg	Gln	Ser	Glu
74532		7170		_			7175					7180				
74533	His	Asp	Glu	Ile	Asn	Ser	Ala	Pro	Ser	Arg	Thr	Glu	Val	Ser	Asn	Asp
74534	7185	_				7190				_	7195					7200

74535	Leu	Asn	His	Ala	Lys 7205		Leu	Asn	Glu	Ala 7210		Arg	Gln	Leu	Glu 7215	
74536	C1	171	77 -	т			Com	7707	T			Com	7\ ~~~	Dha		
74537	GIU	val	Ата			ASII	Ser	Val	туs 7225	_	ьеu	ser	ASP			ASII
74538	C1	7\	C1	7220		C1-	7.00	C1			7 an	70.1.0	T	7230		ח ו ה
74539	GIU	Asp			Ата	GTII	Asn	724(		ser	ASII	ALA			гуу	Ата
74540	T	70	7235		7	01	17-1			0	mb	τ	7245		70.7 -	m1
74541	гаг	_		тте	ASII	стА	Val		ser	ser	TIIT		_	ьуѕ	Ald	TILL
74542	T1 -	7250		7. 7	T	т	7255		C1-0	7	7.7	7260		0	T	77.2
74543			Asp	Ата	Leu		Glu	Leu	GIII	ASII		_	GIU	ser	Leu	
74544	7265		<b>~</b> 1	т	T	7270		7.1.	T	71	7275		77-7	77.	C1	7280
74545	GTÄ	GIU	GIN	гла	ьеи 7285		Glu	ALA	гуѕ			Ата	val	Ala		
74546	7	7	T	C1			7\ ~	Dana	C1	7290		T 011	7\ 7 -	C1	7295	
74547	Asp	Asn	Leu			Leu	Asn	PLO	_		var	ьeu	Ата			THE
74548	Ţ.	77 - 7	70	7300		<b>a</b>	m1	т	7305		77-7	C1	C1	7310		C1
74549	Leu	vaı			Ата	ser	Thr	_		GIU	vaı	GIN			ьeu	GIN
74550		~ 1	7315		<b>-</b>	70	G2.	7320		T	70 71 -	T	7325		O1	T1.
74551	ьys			GLu	ьеи	Asn	Glu		мет	ьуѕ	A.I.a			Thr	GIU	TTE
74552	_	7330		<b>~</b> 3	<b>~</b> 1	- 1	7335		70	<b>a</b>	20	7340		70	70.7 -	71
74553		_	ьys	GLu	GIn		Lys	Ата	Asp	Ser			vaı	Asn	Ala	
74554	7345		_	~1		7350				20.7	7355		m	<b>01</b> -	<b>~</b>	7360
74555	Ser	GTĀ	Leu	GIn			Tyr	Asn	Ser			Asn	Tyr	GTÅ		
74556					7365		_	_	<b>~</b> 1	7370		-	_		7375	
74557	Ile	ITe	Ala			GIn	Pro	Pro			Asn	гÀг	Asp			Asn
74558	_		•	7380			_	<b></b> 1	7385		_	_	_	7390		<i>a</i> 1
74559	Arg	Ala			Thr	lle	Lys			Glu	Asn	Asn			стХ	GIN
74560	_	_	7395		0.1		-	7400		<b>01</b>	70	a1	7405		<b>01</b>	77.2 ~
74561	Ser	_		Ala	Glu	Ala	Lys		Asp	GLY	Asn			TTE	GIU	HIS
74562	_	7410		-	<b>~</b> 1	<b>a</b> 3	7415		_			7420		70	<b>-</b>	T 7 -
74563			GLY	Leu	Thr		Ser	GIn	ьуѕ	Asp	_		Hls	Asp	ьeu	
74564	7425			~ 1		7430		<b>a</b> 3	TY . 7	70 -	7435		.47 - 3	70	7	7440
74565	Asn	GIn	Ala	GIn		_	Gln	GIn	vai	-		тте	vaı	Asn		
74566	_	~-	_	_	7445			~	<b>~1</b>	7450		~1	<b>-</b> 1	77.7	7455	
74567	ьуѕ	GIn	Leu	_		Ser	Met	Asn			GLN	GIN	тте			ASII
74568		~	m1	7460		Q1	7	0	7465		T1 -	7	<b>C1</b>	7470		Com
74569	Asp	Asn			ьys	GIN	Asn			Pne	те	Asn			ser	Ser
74570	<b>~1</b>	<b>G</b> 3	7475			70	T7 .	7480		01	71 -	71 7 -	7485		T	T10
74571	GIn			Ата	Tyr	Asn	His		тте	GTU	ALa.			Asp	теп	rre
74572	m)	7490		_	ora 1	-T-3	7495		-	70	01	7500		Q1	70.7	т1.
74573							Met									
74574							) T					, G1				7520
74575	GLu	Asn	тте	ьуs			Leu	Asn	Asp			СТА	ser	ASI		
74576	•	~1	~	-	7525		77.	~	<b>01</b>	7530		<b>01</b> .	70	T	7535	
74577	Ser	GLu	Asp			GLU	Ala	ser			ьеи	GIN	Asn			ser
74578	_	<b>C</b>	70.	7540		т	70	m1.	7545		71	77.2 -	T1 -	7550		<b>አ</b> ገ –
74579	Leu	Thr		_	GIn	ьуѕ	Asp			теи	Asn	HlS			ser	нта
74580		m)	7555		<i>~</i> 2		<b>~</b> 3	7560		- ·	70.7	•	7565		<b>~</b> 1	T
74581	Pro		-	ser	GIn	Val	Gly		гуз	TTe	ALa			гàг	GIn	теп
74582	_	7570			_	~ ~	7575		_	~	~ 3	7580		_	-	<b>01</b> -
74583	Asn	Asn	Thr	Met	ГÀЗ	Ala	Leu	Arg	Asp	Ser	Ile	Ala	Asp	Asn	Asn	GLU

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		_					_									
74584	758				_	7590			_		7595					7600
74585	He	Leu	GIn	Ser			Tyr	Phe	Asn			Ser	Glu	Gln		
74586					7605					7610					7615	
74587	Ala	Tyr	Asn			Val	Asn	Lys	Ala		Asn	Ile	Ile		_	Gln
74588				7620					7625					7630		
74589	Pro	Thr	Pro	Val	Met	Ala	Asn	Asp	Glu	Ile	Gln	Ser	Val	Leu	Asn	Glu
74590			763	5				7640	)				7645	5		
74591	Val	Lys	Gln	Thr	Lys	Asp	Asn	Leu	His	Gly	Asp	Gln	Lys	Leu	Ala	Asn
74592		7650					7655					7660				
74593	Asp	Lys	Thr	Asp	Ala	Gln	Ala	Thr	Leu	Asn	Ala	Leu	Asn	Tyr	Leu	Asn
74594	766					7670					7675					7680
74595	Gln	Ala	Gln	Arg	Gly	Asn	Leu	Glu	Thr	_		Gln	Asn	Ser	Asn	Ser
74596					7685					7690					7695	
74597	Arg	Pro	Glu	Val	Gln	Lys	Val	Val	Gln	Leu	Ala	Asn	Gln	Leu	Asn	Asp
74598				7700	)				7705	5				7710	)	
74599	Ala	Met	Lys	Lys	Leu	Asp	Asp	Ala	Leu	Thr	Gly	Asn	Asp	Ala	Ile	Lys
74600			7715	5				7720	)				7725	5		
74601	Gln	Thr	Ser	Asn	Tyr	Ile	Asn	Glu	Asp	Thr	Ser	Gln	Gln	Val	Asn	Phe
74602		7730	)				7735	5				7740	)			
74603	Asp	Glu	Tyr	Thr	Asp	Arg	Gly	Lys	Asn	Ile	Val	Ala	Glu	Gln	Thr	Asn
74604	774!	5				7750	)				7755	; )				7760
74605	Pro	Asn	Met	Ser	Pro	Thr	Asn	Ile	Asn	Thr	Ile	Ala	Asp	Lys	Ile	Thr
74606					7765	5				777(	)				7775	5
74607	Glu	Ala	Lys			Leu	His	Gly	Val	Gln	Lys	Leu	Lys	Gln	Ala	Gln
74608				7780					7785					7790		
74609	Gln	Gln			Asn	Thr	Ile		Gln	Met	Thr	Gly			Gln	Ala
74610			7795					7800					7805			
74611	Gln	Lys	Glu	Gln	Leu	Asn			Ile	Gln	Gln			Thr	Arg	Ser
74612		7810					7815					7820				
74613			His	Gln	Val			Lys	Ala	Gln			Asn	Asp	Ser	Met
74614	7825					7830					7835					7840
74615	Asn	Thr	Leu	Arg			Ile	Thr	Asp			Glu	Val	Lys		
74616					7845					7850					7855	
74617	Ser	Asn	Tyr			Glu	Thr	Val	Gly		Gln	Thr	Ala	_		Asn
74618				7860					7865					7870		
74619	Ala	Val	Asp	Arg	Val	Lys	Gln		Ile	Asn	Gln	Thr			Pro	Thr
74620			7875					7880					7885			
	Met			Leu	Glu	Val			Ala	Thr	Ser	Asn	Val	Lys	Ile	Ser
74622		7890					7895					7900				
74623	Lys	Asp	Ala	Leu	His			Arg	Glu	Leu			Asn	Lys	Asn	Ser
74624	7905					7910					7915					7920
74625	Lys	Thr	Phe	Ala	Val	Asn	His	Leu	Asp	Asn	Leu	Asn	Gln	Ala	Gln	Lys
74626					7925					7930					7935	
74627	Glu	Ala	Leu			Glu	Ile	Glu	Gln		Thr	Ile	Val	Ser	Gln	Val
74628				7940					7945					7950		
74629	Asn	Asn			Asn	Lys	Ala	Lys	Ala	Leu	Asn	Asn	Asp	Met	Lys	Lys
74630			7955					7960					7965			
74631	Leu	Lys	Asp	Ile	Val	Ala	Gln	Gln	Asp	Asn	Val	Arg	Gln	Ser	Asn	Asn
74632		7970	)				7975	,				7980	)			

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74633 74634	Tyr 7985		Asn	Glu	Asp	Ser 7990		Pro	Gln	Asn	Met 7995		Asn	Asp	Thr	Ile 8000
74635	Asn		Δla	Gln	Sar			Aen	Gln	₩a]			Pro	Thr	Mo+	
74636	21011	1110	1114	0.1.1.	8005		110	1100	0111	8010		11011	110	1111	801	
74637	His .	Asn	Glu	Tle			Δla	Tle	Agn			Lvs	Hic	Δla		
74638	1110	1100	OIU	8020		11011	11114	110	8025		110	Ly S	1113	8030		ASII
74639	Ala	Leu	Asp		-	His	Lvs	Len			Ala	Lvs	Glu			Asn
74640			8035		0		-1-	8040		<b>J</b>		2,0	804!			11011
74641	Leu	Leu			Ser	Leu	Asn			Asn	Ala	Pro			Asp	Ala
74642		8050					805!					8060		5	11010	
74643	Ile .	Asn	Arg	Leu	Val	Asn			Gln	Thr	Arq			Val	Ala	Glu
74644	8065		,			8070					8075		-1-			8080
74645	Gln	Leu	Gln	Ser	Ala			Leu	Asn	Asp	Ala	Met	Lys	His	Leu	
74646					8085					8090			-		8095	_
74647	Asn	Ser	Ile	Gln	Asn	Gln	Ser	Ser	Val	Arg	Gln	Glu	Ser	Lys	Tyr	Ile
74648				8100					8105	_				8110	_	
74649	Asn .	Ala	Ser	Asp	Ala	Lys	Lys	Glu	Gln	Tyr	Asn	His	Ala	Val	Arg	Glu
74650			8115			-		8120		_			8125		_	
74651	Val	Glu	Asn	Ile	Ile	Asn	Glu	Gln	His	Pro	Thr	Leu	Asp	Lys	Glu	Ile
74652		8130					8135					8140				
74653	Ile :	Lys	Gln	Leu	Thr	Asp	Gly	Val	Asn	Gln	Ala	Asn	Asn	Asp	Leu	Asn
74654	8145					8150	)				8155	5				8160
74655	Gly '	Val	Glu	Leu	Leu	Asp	Ala	Asp	Lys	Gln	Asn	Ala	His	Gln	Ser	Ile
74656					8165	ō				8170	)				8175	5
74657	Pro '	Thr	Leu	Met	His	Leu	Asn	Gln	Ala	Gln	Gln	Asn	Ala	Leu	Asn	Glu
74658				8180					8185					8190		
74659	Lys	Ile	Asn	Asn	Ala	Val	Thr	Arg	Thr	Glu	Val	Ala	Ala	Ile	Ile	Gly
74660			8195					8200					8205			
74661	Gln I			Leu	Leu	Asp			Met	Glu	Asn			Glu	Ser	Ile
74662		8210					8215					8220				
74663	Lys .	-	Lys	Glu	Gln		_	Gln	Ser	Ser		_	Ile	Asn	Glu	_
74664	8225					8230			_		8235					8240
74665	Ser i	Asp	Val	Gin			Tyr	Asp	Asn			Asp	His	Val		
74666	~ 7	_	_	~ 3	8245		_			8250			~ 2	_	8255	
74667	Ile :	Leu	Asn			Val	Asn	Pro			Ser	тте	GLu			Glu
74668	TT 2	n 1 -	<b>-</b> 1.	8260		77 - 1	7	Q1	8265		~	<b>0</b> 3	<b>-</b>	8270		T
74669	His I				GLU	vaı	Asn			Lys	Lys	GIn		_	GTÀ	гàг
74670	01		8275		G1	m1	T1_	8280		70.71	70	T	8285		<b>a</b>	7
74671	Gln :								Leu					Leu	ser	гàг
74672														71	C1	T10
74673 74674	Leu 2 8305	ASP	Asp	ьеи	THE	8310		GTII	ser	ser			ser	ASII	GTII	
74675	Tyr '	Thr.	717	Tvo	Thr			C] 11	W-1	Λla	8315		Tla	C1.,	T	8320
	TAT .	TIIT	Ата	πλ2	8325	-	TIIT	GLU	Val	8330		Ald	TTE	GIU		
74676 74677	Lys :	Sar	T.011	Δen			Met	Luc	ΔΙα			Luc	17 n 1	Фт, 2~	8335	
74678	пуз і	ner.	⊐e.n	8340		ита	7.1GC	пуэ	8345		non	пÃр	val	8350	_	USII
74679	Ala A	Asn	T.vc			Aan	Ser	Ser			Tla	Den	Glii			Dro
74679	11±0 1	-	8355		u Cu	45p	OGI	8360	_	- 11G	TTC	MOII	8365	-	GTII	FIO
74681	Glu l				Tur	Gln	Gln			Asn	Hie	U=1			Tla	Tle
, 4001	J_4 .	_1 _	-1		~ 1 <del>_</del>		J_11			- 1011	-1.1.0	v a ı	TZDD	PCT	T T C	

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74682		8370	) .				8375	5				8380	)			
74683	His	Arg		Thr	Asn				Asp	Pro	Thr			Asn	Ser	Tle
74684	8385	_	0211	1111	11011	8390		-100	1101	2 0	8395					8400
		His	Glu	Lou	Glu			Gln	Zen	Δen			Glv	Aen	Gln	
74685	TIIT	птэ	GIU	пеа	8405		нта	GIII	ASII	8410		1113	Сту	тэр	8415	
74686	Ŧ	7.1.	111.	7. 7			7. ~~	7. 7. 0	77 -			T1.	7 00	C1		
74687	Leu	Ala	HIS			GTII	Asp	Ald			val	TTE	ASII			тте
74688		_	_	8420		~ 1	_	<b>a</b> 1	8425		<b>n</b> : 1 _	7	m1	8430		70
74689	His	Leu			Ala	GIn	Arg			Met	тте	ASII			Tnr	Asn
74690			8435			_		8440		_	_	_	8445		~ -	
74691	Ala	Thr		Arg	Glu	Lys			Lys	Asn	Leu			Ala	GIn	Ala
74692		8450					8455					8460				
74693		Asp	Lys	Ala	Met	Glu	Thr	Leu	Gln	Gln			Ala	His	Lys	
74694	8465					8470					8475					8480
74695	Asn	Ile	Leu	Asn	Asp	Ser	Lys	Tyr	Leu	Asn	Glu	Asp	Ser	Lys	Tyr	Gln
74696					8485	5				8490	)				8495	5
74697	${\tt Gln}$	Gln	Tyr	Asp	Arg	Val	Ile	Ala	Asp	Ala	Glu	Gln	Leu	Leu	Asn	Gln
74698				8500	)				8505	5				8510	)	
74699	Thr	Thr	Asn	Pro	Thr	Leu	Glu	Pro	Tyr	Lys	Val	Asp	Ile	Val	Lys	Asp
74700			8515	5				8520	)				8525	5		
74701	Asn	Val	Leu	Ala	Asn	Glu	Lys	Ile	Leu	Phe	Gly	Ala	Glu	Lys	Leu	Ser
74702		8530					8535				-	8540		_		
74703	Tvr	Asp	Lvs	Ser	Asn	Ala			Glu	Ile	Lvs	His	Met	Asn	Tyr	Leu
74704	8545	_	-1-			8550		L			8555					8560
74705		Asn	Δla	Gln	Lvs			Ile	Lvs	Asp			Ser	His	Ala	Ala
74706	11011	11011	11	01	8565				-1-	8570					8575	
74707	T.e.ii	Arg	Thr	Glu		-	G1n	Len	T.em			Ala	Lvs	Tle		
74708	деа	1119		8580			· · · · ·	1100	8585		02		-1-	8590		1
74709	Clu	Ala	Mo+			T.011	G111	Asn			Gln	Val	Val			Asp
74710	GLU	ALG	8595		DCI	шса	014	8600		111,4	0111		8605			
74711	Thr	Thr			Aen	ጥላን	Thr			Ser	Glu	Asn			Glu	Lvs
	1111	8610		110	H211	- y -	8615		1110	OCI	01.0	8620		7770	010	11,0
74712	17-3	Asp		Thr	<b>37-3</b>	cor			Gln	ב ר ת	Tla			T.v.e	Tle	Asn
74713		_	GTII	TIII	Val	8630		мта	GIII	иτα	8635		лор	цуз	110	8640
74714	8625	Ser	70 000	17-7	C			C15	<b>17</b> 0.7	71 ~~ ~			T 011	Glu	Cln	
74715	GLY	ser	ASII	Val	8645		Asp	GIII	val	8650		Ата	ьеи	GIU	8655	
74716	m1	~ 1	- 1				T	70	<b>~1</b>			7	77-7	C1		
74717	Thr	Gln	Ата			ASII	Leu	Asp			GTII	Arg	Val			Ala
74718	_		1	8660			<b></b>	~ 1	8665		<b>-</b>	m1	***	8670		0
74719	Lys	Val			Asn	GIn	Thr			GIn	ьeu	Tnr			ASII	Ser
74720			8675					8680		_		_	8685		_	_
74721	Leu	Gln	Gln	Gln	Thr	Ala	-		Ser	Val	Lys			Thr	Lys	Leu
74722		8690					8695					8700				
74723	Glu	Glu	Ile	Ala	Thr			Asn	Asn	Ala			Leu	Asn	Lys	
. 74724	8705					8710					8715					8720
74725	Met	Gly	Lys	Leu	Glu	Gln	Phe	Ile	Asn	His	Ala	Asp	Ser	Val	Glu	Asn
74726		-	-		8725					8730					8735	
74727	Ser	Asp	Asn	Tyr			Ala	Asp	Asp	Asp	Lys	I1e	Ile	Ala	Tyr	Asp
74728		-		8740				-	8745		•			8750		
74729	Glu	Ala	Leu			Glv	Gln	Asp	Ile	Gln	Lys	Thr	Asn	Ala	Thr	Gln
74730			8755			-		8760			-		8765			

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14733	74731 74732	Asn	Glu 877		Lys	Gln	Ala	Leu 877		Gln	Leu	Ile	Tyr 878		Glu	Thr	Ser
74735         Tyr Ile Lys Ser Leu Glu Lys Ile Asn Asn Ala Gln Lys Ser Ala Leu Asp 14736         R810         8815           74736         Glu Asp Lys Val Thr Gln Ser His Asp Leu Leu Glu Leu Glu His Ile 8820         8825         8825         8830           74738         Wal Asn Glu Gly Thr Asn Leu Asn Asp Ile Met Gly Glu Leu Ala Asn 8820         8825         8840         8845           74740         8835         8840         8845         8845         8845           74741         Ala Ile Val Asn Asn Tyr Ala Pro Thr Lys Ala Ser Ile Asn Tyr Ile 8850         8850         8860           74743         Asn Ala Asp Asn Leu Arg Lys Asp Asn Phe Thr Gln Ala Ile Asn Asn 8865         8870         8875           74743         Asn Ala Asp Asn Leu Asp Lys Thr Gln Gly Gln Asn Leu Asp Phe Asn 8865         8890         8895           74744         8865         8870         8890         8895           74745         Ala Arg Asp Ala Leu Asn Lys Thr Gln Gly Gln Asn Leu Asp Phe Asn 8885         8890         8895           74746         Ass Gly Ile Glu Arg Leu Thr Ala Ala Lys Ser Lys Ala Glu Lys Leu 8900         8905         8910           74748         Asn Gly Ile Glu Arg Leu Lys Phe Ile Asn Lys Ala Gln Phe Thr His Ala Asn 8930         8935         8940           74751         Ile Asp Ser Leu Lys Phe Ile Asn Lys Ala Gln Leu Ser Arg Ile Val 8955         8960         8940<		Leu 878	Asn 5	Gly	Phe	Glu	Arg	Leu		His	Ala		Pro		Ala	Leu	
174737   Glu Asp Lys Val Thr Gln Ser His Asp Leu Leu Glu Leu Glu His Ile   174738   8820   8825   8835   8840   8845   8846   8845   8846   8845   8846   8845   8846   8845   8846   8846   8845   8846   8846   8845   8846   8446	74735			Lys	Ser	Leu	Glu		Ile	Asn		Ala		Lys	Ser		Leu
74739         Val         Asn         Glu         Gly         Glu         Leu         Ala         Asn         74740         74741         Ala         Ile         Val         Asn         Asn         Asn         Asn         Tyr         Ala         For         Thr         Lys         Ala         Ser         Ile         Asn         Tyr         Ile         Asn         Ala         Asn         A	74737	Glu	Asp	Lys		Thr		Ser	His	Asp			Glu	Leu	Glu		
74740 74741 74742 74742 74742 74743 74743 74744 74744 74744 74744 74744 74744 74744 74744 74744 74745 74744 74745 74744 74746 74745 74746 74746 74746 74747 74746 74747 74748 74747 74748 74748 74748 74749 74749 74749 74749 74749 74749 74751 74752 74751 74763 74764 74764 74764 74766 74767 74766 74766 74766 74766 74766 74767 74766 74767 74766 74767 74767 74767 74767 74767 74767 74768 74769 74769 74769 74769 74769 74760 74760 74760 74760 74760 74761 74760 74761 74762 74763 74764 74766 74766 74767 74766 74767 74766 74767 74766 74767 74768 74769 74769 74769 74769 74769 74760 74760 74760 74760 74760 74760 74760 74760 74760 74760 74760 74760 74760 74760 74760 74760 74761 74760 74760 74760 74760 74760 74760 74760 74760 74760 74760 74760 74760 74760 74760 74760 74761 74760 74776 74776 74776 74776 74776 74776 74777 74778		77.7	70	<b>0</b> 3			_	_	_								
74741 Ala Ile Val Asn Asn Tyr Ala Pro Thr Lys Ala Ser Ile Asn Tyr Ile 74742 8850 8855 8860 74743 Asn Ala Asp Asn Leu Arg Lys Asp Asn Phe Thr Gln Ala Ile Asn Asn 74744 8865 8870 8870 8875 74745 Ala Arg Asp Ala Leu Asn Lys Thr Gln Gly Gln Asn Leu Asp Phe Asn 74746 8865 8880 8890 8895 74747 Ala Ile Asp Thr Phe Lys Asp Asp Ile Phe Lys Thr Lys Asp Ala Leu 74748 Asn Gly Ile Glu Arg Leu Thr Ala Ala Lys Ser Lys Ala Glu Lys Leu 74750 8915 8920 8925 74751 Ile Asp Ser Leu Lys Phe Ile Asn Lys Ala Gln Phe Thr His Ala Asn 74752 8930 8935 8940 74753 Asp Glu Ile Met Asn Thr Asn Ser Ile Ala Gln Leu Ser Arg Ile Val 74756 8945 8950 8955 8950 74757 Asn Gln Ala Phe Asp Leu Asn Asp Ala Met Lys Ser Leu Arg Asp Glu 74758 Asn Gln Ala Phe Pro Val Gln Ala Ser Ser Asn Tyr Ile Asn 74758 8980 8990 74759 Ser Asp Glu Asp Leu Lys Gln Gln Phe Asp His Ala Leu Ser Asn Ala 74760 8995 9000 74761 Arg Lys Val Leu Ala Lys Glu Asn Gly Lys Asn Leu Asp Glu Lys Gln 74762 9010 74763 Gly Ile Gln Arg Leu Ser Lys Ala Gln Phr Lys Asp Ala Leu Asn 74764 9025 9030 74765 Gly Ile Gln Arg Leu Ser Lys Ala Lys Ala Ile Gln Tyr Val 74766 Gly Ile Gln Arg Leu Ser Lys Ala Lys Ala Ile Gln Tyr Val 74766 9025 9030 74767 Gln Ser Leu Ser Tyr Ile Asn Asp Ala Gln Arg His Ile Ala Glu Asn 74768 9025 9030 74769 Asn Ile His Asn Ser Asp Asp Leu Ser Ser Leu Arg Asp Thr Leu Ser 74770 9070 74771 Lys Ala Ser Asp Leu Asp Asn Ala Met Lys Asp Leu Arg Asp Thr Ile 74770 9090 9095 9095 74771 Glu Ser Asn Ser Thr Ser Val Pro Asn Ser Val Asn Tyr Ile Asn Ala 74774 Ala Ile Glu Ser Asn Ser Thr Ser Val Pro Asn Ser Val Asn Tyr Ile Asn Ala 74776 9125 9130 9135 74777 Ala Thr Ser Ser Lys Thr Ser Glu Asn Pro Ala Thr Ile Glu Glu Val 74778 9140		vaı	Asn			Thr	Asn	ьeu			He	Met	Gly			Ala	Asn
74742       8850       8855       8860         74744       Asn Ala Asp Asn Leu Arg Lys Asp Asn Phe Thr Gln Ala Ile Asn Asn 8865       8870       8875       8880         74745       Ala Arg Asp Ala Leu Asn Lys Thr Gln Gly Gln Asn Leu Asp Phe Asn 8885       8895       8895         74746       Ala Ile Asp Thr Phe Lys Asp Asp Ile Phe Lys Thr Lys Asp Ala Leu Asp Phe Asn 8900       8905       8910         74747       Ala Ile Asp Thr Phe Lys Asp Asp Ile Phe Lys Thr Lys Asp Ala Glu Lys Leu 8915       8900       8905         74748       Asn Gly Ile Glu Arg Leu Thr Ala Ala Lys Ser Lys Ala Glu Lys Leu 8915       8920       8925         74750       Asn Gly Ile Glu Arg Leu Thr Ala Ala Lys Ser Lys Ala Glu Lys Leu 8915       8920       8925         74751       Ile Asp Ser Leu Lys Phe Ile Asn Lys Ala Gln Phe Thr His Ala Asn 8936       8930       8930       8930         74752       Asp Glu Ile Met Asn Thr Asn Ser Ile Ala Gln Leu Ser Arg Ile Val 8945       8950       8955       8960         74754       Asp Glu Ile Met Asn Thr Asn Ser Ile Ala Gln Leu Ser Arg Asp Glu Asn Gln Ala Phe Pro Val Gln Ala Ser Ser Asn Tyr Ile Asn 8965       8970       8975         74755       Asn Gln Ala Phe Asp Glu Asn Gly Lys Asn Leu Asp Glu Lys Gln 8985       8980       8986         74756       Arg Lys Val Leu Ala Lys Gln Val Ile Glu Asp Leu Asp Glu Lys Gln 9005       9005 <td< td=""><td></td><td>Ala</td><td>Ile</td><td></td><td></td><td>Asn</td><td>Tvr</td><td>Ala</td><td></td><td></td><td>Lvs</td><td>Ala</td><td>Ser</td><td></td><td></td><td>ጥህን</td><td>Tlo</td></td<>		Ala	Ile			Asn	Tvr	Ala			Lvs	Ala	Ser			ጥህን	Tlo
Asn Ala Asp Asn Leu Arg Lys Asp Asn Phe Thr Gln Ala Ile Asn Asn 8865 8870 8870 8875 8880 8880 88875 8880 8880	74742						- 1				шyU	1114			71511	- y -	116
74744	74743	Asn	Ala	Asp	Asn	Leu	Arg			Asn	Phe	Thr	Gln	Ala	Ile	Asn	Asn
74746       8885       8890       8895         74747       Ala Ile Asp Thr Phe Lys Asp Asp Ile Phe Lys Thr Lys Asp Ala Leu 8900         74748       8900       8905       8915         74749       Asn Gly Ile Glu Arg Leu Thr Ala Ala Lys Ser Lys Ala Glu Lys Leu 8915       8920       8925         74751       Ile Asp Ser Leu Lys Phe Ile Asn Lys Ala Gln Phe Thr His Ala Asn 8930       8930       8935         74752       8930       8935       8940         74753       Asp Glu Ile Met Asn Thr Asn Ser Ile Ala Gln Leu Ser Arg Ile Val 8945       8950       8955         74754       8945       8950       8955       8960         74755       Asn Gln Ala Phe Asp Leu Asn Asp Ala Met Lys Ser Leu Arg Asp Glu 8965       8970       8975         74754       8945       8965       8970       8975         74757       Leu Asn Asn Gln Ala Phe Pro Val Gln Ala Ser Ser Asn Tyr Ile Asn 8980       8985       8990         74758       Ser Asp Glu Asp Leu Lys Gln Gln Phe Asp His Ala Leu Ser Asn Ala 8995       8990       8900         74761       Arg Lys Val Leu Ala Lys Gln Val Ile Glu Asp Thr Lys Asp Ala Leu Asn 9010       9010       9010         74762       9010       901       9030       9035       9030         74763       Ile Gln Gly Leu Lys Gln Val Ile Glu Asp		886	5				887	0				887	5				8880
74747       Ala Ile Asp Thr Phe Lys Asp Asp Ile Phe Lys Thr Lys Asp Ala Leu 8900       8905       8910         74748       8900       8905       8910         74749       Asn Gly Ile Glu Arg Leu Thr Ala Ala Lys Ser Lys Ala Glu Lys Leu 8915       8920       8925         74750       8936       8935       8940         74751       Ile Asp Ser Leu Lys Phe Ile Asn Lys Ala Gln Phe Thr His Ala Asn 8930       8935       8940         74752       8930       8955       8940         74754       894       8950       8955       8960         74755       Asp Glu Ile Met Asn Thr Asn Ser Ile Ala Gln Leu Ser Arg Ile Val 8965       8950       8950       8970         74755       Asn Gln Ala Phe Asp Leu Asn Asp Ala Met Lys Ser Leu Arg Asp Glu 8965       8970       8975       8976         74757       Leu Asn Asn Gln Ala Phe Pro Val Gln Ala Ser Ser Asn Tyr Ile Asn 8980       8985       8990       8975       8990         74758       Ser Asp Glu Asp Leu Lys Gln Gln Phe Asp His Ala Leu Ser Asn Ala 9000       9000       9005       9005         74761       Arg Lys Val Leu Ala Lys Glu Asn Gly Lys Asn Leu Asp Glu Lys Gln 9010       9020       9035       9035       9040         74762       John Gly Leu Lys Gln Val Ile Glu Asp Thr Lys Asp Ala Leu Asn 9025       9030       9035       90		Ala	Arg	Asp	Ala			Lys	Thr	Gln			Asn	Leu	Asp	Phe	Asn
74748         8900         8905         8910           74749         Asn Gly Ile Glu Arg Leu Thr Ala Ala Lys Ser Lys Ala Glu Lys Leu 8915         8920         8925           74751         Ile Asp Ser Leu Lys Phe Ile Asn Lys Ala Gln Phe Thr His Ala Asn 8930         8935         8940           74752         8930         8935         8940           74753         Asp Glu Ile Met Asn Thr Asn Ser Ile Ala Gln Leu Ser Arg Ile Val 8945         8950         8955         8960           74754         8945         8950         8955         8960           74755         Asn Gln Ala Phe Asp Leu Asn Asp Ala Met Lys Ser Leu Arg Asp Glu 8965         8970         8975           74756         Asn Gln Ala Phe Pro Val Gln Ala Ser Ser Asn Tyr Ile Asn 8985         8970         8975           74757         Leu Asn Asn Gln Ala Phe Pro Val Gln Phe Asp His Ala Leu Ser Asn Ala 8985         8990         8975           74759         Ser Asp Glu Asp Leu Lys Gln Gln Phe Asp His Ala Leu Ser Asn Ala 9905         9000         9005           74760         Arg Lys Val Leu Ala Lys Glu Asn Gly Lys Asn Leu Asp Glu Lys Gln 9010         9015         9020           74763         Ile Gln Gly Leu Lys Gln Val Ile Glu Asp Thr Lys Asp Ala Leu Asn 9025         9030         9035         9040           74765         Gly Ile Gln Arg Leu Ser Lys Ala Lys Ala Lys Ala Leu Ala Gln Tyr Va		7.7	<b>T1</b> -	7	OT 1-			_	_					_	_		
74749       Asn Gly Ile Glu Arg Leu Thr Ala Ala Lys Ser Lys Ala Glu Lys Leu 8915       8920       8925         74751       Ile Asp Ser Leu Lys Phe Ile Asn Lys Ala Gln Phe Thr His Ala Asn 8930       8935       8940         74752       8930       8935       8940         74753       Asp Glu Ile Met Asn Thr Asn Ser Ile Ala Gln Leu Ser Arg Ile Val 8945       8950       8955       8960         74754       8945       8950       8955       8960         74755       Asn Gln Ala Phe Asp Leu Asn Asp Ala Met Lys Ser Leu Arg Asp Glu 8965       8970       8975         74756       Asn Gln Ala Phe Pro Val Gln Ala Ser Ser Asn Tyr Ile Asn 8980       8985       8990         74757       Leu Asn Asn Gln Ala Phe Pro Val Gln Phe Asp His Ala Leu Ser Asn Ala 8995       8990         74759       Ser Asp Glu Asp Leu Lys Gln Gln Phe Asp His Ala Leu Ser Asn Ala 8995       8990         74761       Arg Lys Val Leu Ala Lys Glu Asn Gly Lys Asn Leu Asp Glu Lys Gln 9010       9015       9020         74763       Ile Gln Gly Leu Lys Gln Val Ile Glu Asp Thr Lys Asp Ala Leu Asn 9025       9030       9035       9040         74765       Gly Ile Gln Arg Leu Ser Lys Ala Lys Ala Lys Ala Ile Gln Tyr Val 9045       9050       9055       9055         74767       Gln Ser Leu Ser Tyr Ile Asn Asp Asp Ala Gln Arg His Ile Ala Glu Asn 9060       9060       9065		Ата	тте	Asp			Lys	Asp	Asp			Lys	Thr	Lys	_		Leu
74750       8915       8920       8925         74751       Ile Asp Ser Leu Lys Phe Ile Asn Lys Ala Gln Phe Thr His Ala Asn 8930       8935       8940         74752       8930       8935       8940         74753       Asp Glu Ile Met Asn Thr Asn Ser Ile Ala Gln Leu Ser Arg Ile Val 8945       8950       8955       8960         74754       8945       8950       8955       8960         74755       Asn Gln Ala Phe Asp Leu Asn Asp Ala Met Lys Ser Leu Arg Asp Glu 8965       8970       8975         74756       Asn Gln Ala Phe Pro Val Gln Ala Ser Ser Asn Tyr Ile Asn 8980       8985       8990         74757       Leu Asn Asn Gln Ala Phe Pro Val Gln Phe Asp His Ala Leu Ser Asn Ala 8990       8985       8990         74759       Ser Asp Glu Asp Leu Lys Glu Asn Gly Lys Asn Leu Asp Glu Lys Gln 8995       9000       9005         74761       Arg Lys Val Leu Ala Lys Glu Asn Gly Lys Asn Leu Asp Glu Lys Gln 9010       9015       9020         74763       Ile Gln Gly Leu Lys Gln Val Ile Glu Asp Thr Lys Asp Ala Leu Asn 9025       9030       9035         74765       Gly Ile Gln Arg Leu Ser Lys Ala Lys Ala Lys Ala Ile Gln Tyr Val 9045       9050       9055         74766       Gln Ser Leu Ser Tyr Ile Asn Asp Ala Gln Arg His Ile Ala Glu Asn 9060       9060       9070         74769       Asn Ile His Asn Se		Asn	Glv	Tle			T.e.11	Thr	בו מ			Sor	Tvc	7/1 ~			T 011
Table   The   Asp   Ser   Leu   Lys   Phe   The   Ash   Lys   Ala   Gln   Phe   Thr   His   Ala   Ash   Ash   Ser   Se		11011	OT J			1119	пса	* * * * T			шуз	per	пур			пур	теп
74752         8930         8935         8940           74753         Asp Glu Ile Met Asn Thr Asn Ser Ile Ala Gln Leu Ser Arg Ile Val 8945         8950         8955         8960           74754         8945         8950         8950         8955         8960           74755         Asn Gln Ala Phe Asp Leu Asn Asp Ala Met Lys Ser Leu Arg Asp Glu 8965         8970         8975           74756         B980         8980         89870         8997           74757         Leu Asn Asn Gln Ala Phe Pro Val Gln Ala Ser Ser Asn Tyr Ile Asn 8990         8985         8990           74758         8980         8985         8980         8985         8990           74758         Ser Asp Glu Asp Leu Lys Gln Gln Phe Asp His Ala Leu Ser Asn Ala 9905         9005         9005           74760         Arg Lys Val Leu Ala Lys Glu Asn Gly Lys Asp Leu Asp Glu Lys Gln 9015         9020         9020           74761         Arg Lys Val Leu Lys Gln Val Ile Glu Asp Thr Lys Asp Ala Leu Asn 9025         9030         9035         9040           74762         Gly Ile Gln Arg Leu Lys Gln Val Ile Glu Asp Thr Lys Asp Ala Leu Asn 9025         9030         9035         9040           74765         Gly Ile Gln Arg Leu Ser Tyr Ile Asn Asp Ala Gln Arg His Ile Ala Glu Asn 9045         9050         9055           74767         Gln		Ile	Asp			Lvs	Phe	Ile			Ala	Gln	Phe			Ala	Asn
74754       8945       8950       8955       8960         74755       Asn Gln Ala Phe Asp Leu Asn Asp Beu Asn Asp Beu Asn Asp Beu Asn Asp Beu	74752					_				-1-		·				1114	11011
74754       8945       8950       8955       8960         74755       Asn Gln Ala Phe Asp Leu Asn Asp Beu Asn Asp Beu Asn Asp Beu Asn Asp Beu	74753	Asp	Glu	Ile	Met	Asn	Thr	Asn	Ser	Ile	Ala	Gln	Leu	Ser	Arg	Ile	Val
74756       8965       8970       8975         74757       Leu Asn Asn Gln Ala Phe Pro Val Gln Ala Ser Ser Asn Tyr Ile Asn 8980       8985       8990         74758       Ser Asp Glu Asp Leu Lys Gln Gln Phe Asp His Ala Leu Ser Asn Ala 9980       8995       8990         74759       Ser Asp Glu Asp Leu Lys Gln Gln Phe Asp His Ala Leu Ser Asn Ala 14760       8995       9000       9005         74760       Arg Lys Val Leu Ala Lys Glu Asn Gly Lys Asn Leu Asp Glu Lys Gln 9010       9015       9020         74761       Arg Lys Val Leu Lys Gln Val Ile Glu Asp Thr Lys Asp Ala Leu Asn 9025       9030       9035       9040         74763       Ile Gln Gly Leu Lys Gln Val Ile Glu Asp Thr Lys Asp Ala Leu Asn 9045       9035       9040         74764       9025       9030       9035       9035       9040         74765       Gly Ile Gln Arg Leu Ser Lys Ala Lys Ala Lys Ala Ile Gln Tyr Val 9045       9050       9055       9055         74767       Gln Ser Leu Ser Tyr Ile Asn Asp Ala Gln Arg His Ile Ala Glu Asn 9060       9060       9065       9070         74768       Ser Leu Ser Asp Asp Leu Ser Ser Leu Ala Asn Thr Leu Ser 9080       9085       9080       9085         74771       Lys Ala Ser Asp Leu Asp Asn Ala Met Lys Asp Leu Arg Asp Thr Ile 9090       9095       9100       9115       9120         74		8945	ō				895	0				895	5				8960
Taylor		Asn	Gln	Ala	Phe			Asn	Asp	Ala			Ser	Leu	Arg	-	
74758       8980       8985       8990         74759       Ser Asp Glu Asp Leu Lys Gln Gln Phe Asp His Ala Leu Ser Asn Ala 8995       9000       9005         74760       8995       9000       9005         74761       Arg Lys Val Leu Ala Lys Glu Asn Gly Lys Asn Leu Asp Glu Lys Gln 9010       9015       9020         74762       9010       9015       9020         74763       Ile Gln Gly Leu Lys Gln Val Ile Glu Asp Thr Lys Asp Ala Leu Asn 9025       9030       9035       9040         74764       9025       9030       9035       9035       9040         74765       Gly Ile Gln Arg Leu Ser Lys Ala Lys Ala Lys Ala Ile Gln Tyr Val 9045       9050       9055       9055         74766       Gln Ser Leu Ser Tyr Ile Asn Asp Ala Gln Arg His Ile Ala Glu Asn 9060       9065       9070       9070         74768       9060       9065       9070       9085       9080       9085         74770       Lys Ala Ser Asp Leu Asp Asp Leu Ser Ser Leu Ala Asn Thr Leu Ser 9090       9095       9085       9085         74771       Lys Ala Ser Asp Ser Thr Ser Val Pro Asn Ser Val Asn Tyr Ile Asn Ala 9105       9100       9110       9115       9120         74773       Glu Ser Asn Ser Thr Ser Val Pro Asn Ser Val Asn Tyr Ile Asn Ala Ser 9125       9130       9135	74757	Leu	Asn	Asn	Gln		-	Pro	Val	Gln			Ser	Asn	Tvr		
74760 8995 9000 9005  74761 Arg Lys Val Leu Ala Lys Glu Asn Gly Lys Asn Leu Asp Glu Lys Gln 74762 9010 9015 9020  74763 Ile Gln Gly Leu Lys Gln Val Ile Glu Asp Thr Lys Asp Ala Leu Asn 74764 9025 9030 9035 9040  74765 Gly Ile Gln Arg Leu Ser Lys Ala Lys Ala Lys Ala Ile Gln Tyr Val 74766 9045 9060 9065  74767 Gln Ser Leu Ser Tyr Ile Asn Asp Ala Gln Arg His Ile Ala Glu Asn 74768 9060 9065 9070  74769 Asn Ile His Asn Ser Asp Asp Leu Ser Ser Leu Ala Asn Thr Leu Ser 74770 9075 9080 9085  74771 Lys Ala Ser Asp Leu Asp Asn Ala Met Lys Asp Leu Arg Asp Thr Ile 74772 9090 9095 9095  74773 Glu Ser Asn Ser Thr Ser Val Pro Asn Ser Val Asn Tyr Ile Asn Ala 74774 9105 9110 9115 9120  74775 Asp Lys Asn Leu Gln Ile Glu Phe Asp Glu Ala Leu Gln Gln Ala Ser 74776 9125 9130 9135  74777 Ala Thr Ser Ser Lys Thr Ser Glu Asn Pro Ala Thr Ile Glu Glu Val 74778	74758				898	0				898.	5				8990	)	
74761       Arg Lys Val Leu Ala Lys Glu Asn Gly Lys Asn Leu Asp Glu Lys Gln 9010       9015       9020         74762       9010       9015       9020         74763       Ile Gln Gly Leu Lys Gln Val Ile Glu Asp Thr Lys Asp Ala Leu Asn 9025       9030       9035       9040         74764       9025       9030       9035       9040         74765       Gly Ile Gln Arg Leu Ser Lys Ala Lys Ala Lys Ala Ile Gln Tyr Val 9045       9050       9055         74766       9045       9060       9065       9070         74768       9060       9065       9070         74769       Asn Ile His Asn Ser Asp Asp Leu Ser Ser Leu Ala Asn Thr Leu Ser 9075       9080       9085         74771       Lys Ala Ser Asp Leu Asp Asn Ala Met Lys Asp Leu Arg Asp Thr Ile 9090       9095       9100         74773       Glu Ser Asn Ser Thr Ser Val Pro Asn Ser Val Asn Tyr Ile Asn Ala 9105       9110       9115       9120         74775       Asp Lys Asn Leu Gln Ile Glu Phe Asp Glu Ala Leu Gln Gln Ala Ser 9125       9130       9135         74777       Ala Thr Ser Ser Lys Thr Ser Glu Asn Pro Ala Thr Ile Glu Glu Val 9140       9145       9150		Ser	Asp			Leu	Lys	Gln	Gln	Phe	Asp	His	Ala	Leu	Ser	Asn	Ala
74762 74763  Ile Gln Gly Leu Lys Gln Val Ile Glu Asp Thr Lys Asp Ala Leu Asn 74764 9025 9030 9035 9040 74765  Gly Ile Gln Arg Leu Ser Lys Ala Lys Ala Lys Ala Ile Gln Tyr Val 74766 9045 9060 9065 9070 74769 Asn Ile His Asn Ser Asp Asp Leu Ser Ser Leu Ala Asn Thr Leu Ser 74770 9075 9080 9085 74771 Lys Ala Ser Asp Leu Asp Asn Ala Met Lys Asp Leu Arg Asp Thr Ile 9090 9095 9095 9100 74773 Glu Ser Asn Ser Thr Ser Val Pro Asn Ser Val Asn Tyr Ile Asn Ala 9105 9125 9130 9135 9140 9145 9150		_															
74763       Ile Gln Gly Leu Lys Gln Val Ile Glu Asp Thr Lys Asp Ala Leu Asn         74764       9025       9030       9035       9040         74765       Gly Ile Gln Arg Leu Ser Lys Ala Lys Ala Lys Ala Ile Gln Tyr Val       9050       9055         74766       9045       9050       9055         74767       Gln Ser Leu Ser Tyr Ile Asn Asp Ala Gln Arg His Ile Ala Glu Asn       9060       9065       9070         74768       9070       9080       9085       9085         74770       Asn Ile His Asn Ser Asp Leu Asp Asn Ala Met Lys Asp Leu Arg Asp Thr Leu Ser       9085         74771       Lys Ala Ser Asp Leu Asp Asn Ala Met Lys Asp Leu Arg Asp Thr Ile       9090       9095       9100         74773       Glu Ser Asn Ser Thr Ser Val Pro Asn Ser Val Asn Tyr Ile Asn Ala       9115       9120         74775       Asp Lys Asn Leu Gln Ile Glu Phe Asp Glu Ala Leu Gln Gln Ala Ser       9135         74776       9125       9130       9135         74777       Ala Thr Ser Ser Lys Thr Ser Glu Asn Pro Ala Thr Ile Glu Glu Val       9140		Arg	Lys	Val	Leu	Ala	Lys			Gly	Lys	Asn			Glu	Lys	Gln
74764 9025 9030 9035 9040  74765 Gly Ile Gln Arg Leu Ser Lys Ala Lys Ala Lys Ala Ile Gln Tyr Val 74766 9045 9050 9055  74767 Gln Ser Leu Ser Tyr Ile Asn Asp Ala Gln Arg His Ile Ala Glu Asn 74768 9060 9065 9070  74769 Asn Ile His Asn Ser Asp Asp Leu Ser Ser Leu Ala Asn Thr Leu Ser 74770 9075 9080 9085  74771 Lys Ala Ser Asp Leu Asp Asn Ala Met Lys Asp Leu Arg Asp Thr Ile 74772 9090 9095 9100  74773 Glu Ser Asn Ser Thr Ser Val Pro Asn Ser Val Asn Tyr Ile Asn Ala 74774 9105 9110 9115 9120  74775 Asp Lys Asn Leu Gln Ile Glu Phe Asp Glu Ala Leu Gln Gln Ala Ser 74776 9125 9130 9135  74777 Ala Thr Ser Ser Lys Thr Ser Glu Asn Pro Ala Thr Ile Glu Glu Val 74778		Tlo			т о	T	C1			G1	70	m1			<b>.</b> .	-	_
74765 Gly Ile Gln Arg Leu Ser Lys Ala Lys Ala Lys Ala Ile Gln Tyr Val 74766 9045 9050 9055  74767 Gln Ser Leu Ser Tyr Ile Asn Asp Ala Gln Arg His Ile Ala Glu Asn 74768 9060 9065 9070  74769 Asn Ile His Asn Ser Asp Asp Leu Ser Ser Leu Ala Asn Thr Leu Ser 74770 9075 9080 9085  74771 Lys Ala Ser Asp Leu Asp Asn Ala Met Lys Asp Leu Arg Asp Thr Ile 74772 9090 9095 9100  74773 Glu Ser Asn Ser Thr Ser Val Pro Asn Ser Val Asn Tyr Ile Asn Ala 74774 9105 9110 9115 9120  74775 Asp Lys Asn Leu Gln Ile Glu Phe Asp Glu Ala Leu Gln Gln Ala Ser 74776 9125 9130 9135  74777 Ala Thr Ser Ser Lys Thr Ser Glu Asn Pro Ala Thr Ile Glu Glu Val 74778 9140 9145 9150				дту	ьеи	гуу			тте	GIU	Asp			Asp	Ата	ьeu	
74766 74767 Gln Ser Leu Ser Tyr Ile Asn Asp Ala Gln Arg His Ile Ala Glu Asn 9060 9065 9075 74770 Asn Ile His Asn Ser Asp Asp Leu Ser Ser Leu Ala Asn Thr Leu Ser 9075 74771 Lys Ala Ser Asp Leu Asp Asn Ala Met Lys Asp Leu Arg Asp Thr Ile 9090 9095 74773 Glu Ser Asn Ser Thr Ser Val Pro Asn Ser Val Asn Tyr Ile Asn Ala 74774 9105 9110 9115 9120 74776 Asp Lys Asn Leu Gln Ile Glu Phe Asp Glu Ala Leu Gln Gln Ala Ser 9125 74777 Ala Thr Ser Ser Lys Thr Ser Glu Asn Pro Ala Thr Ile Glu Glu Val 9147				Gln	Ara	Len			Δla	Tays	Ala			Tle	Gln	Туг	
Table   Gln   Ser   Leu   Ser   Tyr   Ile   Asn   Asp   Ala   Gln   Arg   His   Ile   Ala   Glu   Asn   Asn   Asn   Asn   Ser   Asn   Ser   Asp   Asn   Ser   Ser   Leu   Ala   Asn   Thr   Leu   Ser   Asn   Ser   Asp   Asn   Ala   Met   Lys   Asp   Leu   Arg   Asp   Thr   Ile   Asn   As		2			9			10	1124	טעם			2114	110	OIII	-	
74768  74769  Asn Ile His Asn Ser Asp Asp Leu Ser Ser Leu Ala Asn Thr Leu Ser 9070  74770  9075  14771  1478  158  169  174772  9090  174773  174774  174774  174775  174775  174776  174776  174777  174777  174778  174778  174778  174778  174778  185  185  186  187  188  188  188  188  188  188	74767	Gln	Ser	Leu	Ser	Tyr	Ile	Asn	Asp	Ala			His	Ile	Ala		
74770  9075  9080  9085  74771  Lys Ala Ser Asp Leu Asp Asn Ala Met Lys Asp Leu Arg Asp Thr Ile 9090  74773  Glu Ser Asn Ser Thr Ser Val Pro Asn Ser Val Asn Tyr Ile Asn Ala 74774  9105  Asp Lys Asn Leu Gln Ile Glu Phe Asp Glu Ala Leu Gln Gln Ala Ser 9125  74776  Ala Thr Ser Ser Lys Thr Ser Glu Asn Pro Ala Thr Ile Glu Glu Val 91478	74768								-			J					
74771       Lys Ala Ser Asp Leu Asp Asn Ala Met Lys Asp Leu Arg Asp Thr Ile         74772       9090       9095       9100         74773       Glu Ser Asn Ser Thr Ser Val Pro Asn Ser Val Asn Tyr Ile Asn Ala         74774       9105       9110       9115       9120         74775       Asp Lys Asn Leu Gln Ile Glu Phe Asp Glu Ala Leu Gln Gln Ala Ser       9130       9135         74776       9125       9130       9135         74777       Ala Thr Ser Ser Lys Thr Ser Glu Asn Pro Ala Thr Ile Glu Glu Val         74778       9140       9145       9150		Asn	Ile	His	Asn	Ser	Asp	Asp	Leu	Ser	Ser	Leu	Ala	Asn	Thr	Leu	Ser
74772 9090 9095 9100  74773 Glu Ser Asn Ser Thr Ser Val Pro Asn Ser Val Asn Tyr Ile Asn Ala 74774 9105 9110 9115 9120  74775 Asp Lys Asn Leu Gln Ile Glu Phe Asp Glu Ala Leu Gln Gln Ala Ser 74776 9125 9130 9135  74777 Ala Thr Ser Ser Lys Thr Ser Glu Asn Pro Ala Thr Ile Glu Glu Val 74778 9140 9145 9150																	
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74774 9105 9110 9115 9120 74775 Asp Lys Asn Leu Gln Ile Glu Phe Asp Glu Ala Leu Gln Gln Ala Ser 74776 9125 9130 9135 74777 Ala Thr Ser Ser Lys Thr Ser Glu Asn Pro Ala Thr Ile Glu Glu Val 74778 9140 9145 9150		C1			<b>a</b>	m1.	~			_	~					_	
74775       Asp Lys Asn Leu Gln Ile Glu Phe Asp Glu Ala Leu Gln Gln Ala Ser         74776       9125       9130       9135         74777       Ala Thr Ser Ser Lys Thr Ser Glu Asn Pro Ala Thr Ile Glu Glu Val       9140       9145       9150				Asn	ser	Thr			Pro	Asn	Ser			Tyr	Ile	Asn	
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74777 Ala Thr Ser Ser Lys Thr Ser Glu Asn Pro Ala Thr Ile Glu Glu Val 74778 9140 9145 9150		110P	دىرى	17011	шeu			JIU	EHE	тэћ			neu	QT[]	GTII		
74778 9140 9145 9150		Ala	Thr	Ser	Ser			Ser	Glu	Asn			Thr	Tle	Glu		
3100												1114		C			v (4.1
i i i i i i i i i i i i i i i i i i i	74779	Leu	Gly	Leu	Ser	Gln	Ala	Ile	Tyr			Lys	Asn	Ala			Gly

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74780	915	5	9160		9165	
74781					-	Tie Lve
	9170	ned via IIII	9175	ner nys wah	9180	TIC Dys
74782		7.a Taux 7.a		Cla Lau Clu		Non Trre
74783		Asp Leu Asn	_			9200
74784	9185	919	•	9195		
74785	Val Asn Ser	Ala Asn Thr	Leu Thr		Gin Leu Inr	
74786		9205		9210		9215
74787	Thr Leu Glu	Leu Asn Asp	_			
74788		9220		9225	923	-
74789		Asn Pro Val	_			Ala Asp
74790	923	~	9240		9245	
74791	Tyr Asn Leu	Lys Arg Gln	Phe Asn	Lys Ala Leu	Lys Glu Ala	Lys Gly
74792	9250		9255		9260	
74793	Val Leu Asn	Lys Asn Ser	Gly Thr	Asn Val Asn	Ile Asn Asp	Ile Gln
74794	9265	927	0	9275		9280
74795	His Leu Leu	Thr Gln Ile	Asp Asn	Ala Lys Asp	Gln Leu Asn	Gly Glu
74796		9285		9290		9295
74797	Arg Arg Leu	Lys Glu His	Gln Gln	Lys Ser Glu	Val Phe Ile	Ile Lys
74798		9300		9305	931	0
74799	Glu Leu Asp	Ile Leu Asn	Asn Ala	Gln Lys Ala	Ala Ile Ile	Asn Gln
74800	931		9320		9325	
74801	Ile Arg Ala	Ser Lys Asp	Ile Lvs	Ile Ile Asn	Gln Ile Val	Asp Asn
74802	9330	3 - 1	9335		9340	-
74803		Leu Asn Asp		Gln Glv Leu		Val Ala
74804	9345	935		9355		9360
74805		Ala Thr Thr				
74806	O	9365	-1	9370		9375
74807	Glu Asp His	Lys Leu Gln	Tyr Asp '		Asn Leu Ala	
74808	C14 1.0p 1.110	9380	_	9385	939	
74809	Val Leu Asn	Lys Glu Asn				
74810	939	-	9400		9405	
74811		Ğln Asn Met				GlvTle
74812	9410	0111 11011 1100	9415	1114 1119 1114	9420	313 110
74813		Lys Asp Ala		Lve Ala His		Tws Asn
74814	9425	193 ASP A10 943		9435		9440
		Arg Gln Leu				-
74815	THE TER TÀS	9445	wah ara	9450	VTO VOII VTO	9455
74816	Tan Can Tric		Tera Class		Cl., Cl., 71.	
74817	ASH SEL LYS	Ala Gln Ala		9465	947	
74818	77 T O	9460				
74819		Asn Ile Asn				ASII GIII
74820	947		9480		9485	7 01
74821		Glu Gly Gln		TIE GIU HIS		Asp GIU
74822	9490	-1 -	9495		9500	- · · · ·
74823		Ala Lys Leu				
74824	9505	951		9515		9520
74825	Glu Asp Ile	Asn His Leu	Ile Ser		Asn Leu Ser	
74826		9525		9530		9535
74827	Glu Lys Asn	Lys Leu Ile				
74828		9540	:	9545	955	0

74829 74830	Lys	Asn	Glu 9555		Gln	Gln	Ala	Ile 9560	Asn	Lys	Gln	Gln	Ile 9565		Asn	Ala
74831	Thr		Lys		Asp	Glu	Val		Glu	Thr	Thr	Lys		-	Ile	Ile
74832		9570					9575					9580				
74833	Ala	Lys	Ala	Glu	Ala	_		Met	Ile	Lys			Ser	Gln	Lys	Lys
74834	.9585	5				9590	)				9595	5				9600
74835	Arg	Asp	Ala	Ile	Asn	Asn	Asn	Thr	Asp	Leu	Thr	Pro	Ser	Gln	Lys	Ala
74836					9605	5				9610	)				9615	5
74837	His	Ala	Leu	Ala	Asp	Ile	Asp	Lys	Thr	Glu	Lys	Asp	Ala	Leu	Gln	His
74838				9620	)				9625	5				9630	)	
74839	Ile	Glu	Asn	Ser	Asn	Ser	Ile	Asp	Asp	Ile	Asn	Asn			Glu	His
74840			9635					9640					9645			
74841	Ala	Phe	Asn	Thr	Leu	Ala	His	Ile	Ile	Ile	Trp	Asp	Thr	Asp	Gln	Gln
74842		9650					9655					9660				
74843	Pro	Leu	Val	Phe	Glu	Val	Pro	Glu	Leu	Ser			Asn	Ala	Leu	Val
74844	9665					9670					9675					9680
74845	Thr	Ser	Glu	Val			His	Arg	Asp	Glu	Thr	Ile	Ser	Leu	Glu	Ser
74846					9685					9690					9695	
74847	Ile	Lys	Lys	Lys	Met	Thr	Leu	Thr	Asp	Glu	Leu	Lys	Val			Val
74848				9700					9705	-				9710		
74849	Ser	Leu			Thr	Asp	Lys		Ala	Asp	His	Leu			Lys	Val
74850			9715					9720	-				9725			
74851	Lys			Leu	Ala	Asp			Tyr	Val	Thr			Val	Pro	Val
74852		9730					9735					9740				
74853	-		Val	Glu	Lys			Gln	Ile	Ala	_	_	Asp	Ala	Ile	
74854	9745					9750					9755					9760
74855	Thr	Ile	Asp	Val			Lys	Gln	Lys			Asp	Ile	Asp		
74856					9765					9770					9775	
74857	Asn	Glu	Leu			Thr	Gln	Arg	Glu		Ala	Lys	Ala			Glu
74858				9780					9785					9790		_
74859	Arg	Leu	-	_	Gln	Ala	Ile	-	Lys	Val	Asn	His			Ser	ITe
74860		_	9795				_	9800		_	_,		9805		_	- 1
74861	Lys			Glu	Thr	Val	_	_	Thr	Asp	Phe			lle	Asp	GIn
74862	_,	9810		_	_	<b></b> 1	9815		_	_	~ 7	9820		-		<b></b> 1
74863		-	Pro	ьуs	Arg			Leu	Asn	Lys			ьуѕ	Asp	тте	
74864	9825			••	mı	9830		01.	<b>.</b>	<b>Q1</b>	9835		<b>~</b> 2	<b>-1.</b>	01	9840
74865	Thr	Asp	vaı	Asn			TTE	GIn	Asn	_		ьys	GLU	тте		
74866	<b> 3</b>	-	<b>~</b> 3	<b>.</b>	9845		70	G3	<b>.</b>	9850		701-	70	<b>.</b>	9855	
74867	TTE	гÀг	GTA			Ser	Asn	GLu	Lys		GIn	Phe	Asp	-		Leu
74868	m1	70.7	<b>-</b>	9860		~1	D)	T	9865		**- 1	<b>C1</b>	11.7 -	9870		71
74869	Thr	Ата			Lys	GIu	Phe		Glu	ьуs	vaı	GLU			HlS	Asn
74870	_		9875		-	<b>~</b> 1	_	9880		<b>01</b>	D1	70.	9885		<b>m</b> .	T
74871	Leu			Leu	Asn	GIn			Gln	GIU	Pne			Arg	Tyr	тÀг
74872		9890		_	<b>~1</b>	70. T	9895		<b>.</b>	01	<b>~</b> 1-	9900		~ 1	70 71 -	01
74873			Leu	Asn	GIN			Leu	Leu	GIA			HlS	тте	Ата	
74874	9905		_	a 2	m	9910		77. 7	70	T	9915		G1	T1.	т	9920
74875	Hls	ьуs	Leu	GLY			val	val	Asn			GIN	GIN	тте		
74876	<b>.</b>	0.1	0	י א	9925		ու	T 1	т	9930		20.7 -	T	7\	9935	
74877	Asn	GIN	ser	ATA	ser	Tyr	Lue	тте	Lys	GTU	rrp	нта	теп	Asp	Arg	тте

PATENT APPLICATION: US/10/724,972

DATE: 12/22/2003 TIME: 07:13:25

Input Set: N:\Crf4\12172003\J724972.raw Output Set: N:\CRF4\12222003\J724972.raw

	74878				9940					9945					9950		
	74879	Lys	Gln	Ile	Gln	Leu	Glu	Thr	Met	Asn	Ser	Ile	Arg	Gly	Ala	His	Thr
	74880			995					9960					9965			
	74881	Val	Gln	Asp	Val	His	Lys	Ala	Leu	Leu	Gln	Gly	Ile	Glu	Gln	Ile	Leu
	74882		9970	)				997	5				9980	)			
	74883	Lys	Val	Asn	Val	Ser	Ile	Ile	Asn	Gln	Ser	Phe	Asn	Asp	Ser	Leu	His
	74884	9985	-				9990	-				9995	_				10000
	74885	Asn	Phe	Asn	Tyr	Leu	_His	Ser	Lys	Phe	Asp	Ala	Arg	Leu	Arg	Glu	Lys
E>	74886				•	1000				•	1001					100	
	74887	Asp	Val	Ala	Asn	His	Ile	Val	Gln	Thr	Glu	Thr	Phe	Lys	Glu	Val	Leu
E>	74888				1002					1002					1003		
	74889	Lys				Val	Glu		Gly		Ile	Asn	Lys	Glu	Thx	Gln	Gln
E>	74890		_	1003					1004	-			_	1004			
	74891				His	Lys			Asn	Asp	Ser	Leu			His	Leu	Val
E>	74892		1005					100!					1006				
	74893			Phe	Gly	Lys			Gly	Val	Ile			Thr	Gly	Leu	
E>	74894	(1006					1007				(	1007				(	10080)
	74895	Ser	Ser	Phe	Trp		`	Leu	Ala	Lys	Arg	Arg	Ĺys	Lys	_	(	- 74
E>	74896				(	1008	7			•	1009	_				1009	
	74897	Glu	Lys				Lys	Asn	His			Asp	Ile				Asp
E>	74898		_		1010				•	1010				_	1011	/	
	74899	Thr				Asp	Pro	_	Val	1	Thr	Lys	- /		-	Asp	Lys
E>	74900	~ ~	,	1011			_	`	1012					101			
	74901				Tle	Gln	_	_	Asp	Lys	His		_ , ,	-30	Val	Ala	Lys
E>	74902	_	1013		~	_	-	1013		_	_		1014				_
	74903			гля	Ser	Lys	_		GIn	Leu				Asp	Ile	His	Ser
E>	74904	(1014		1		. (	1015	_	<b>~</b> 1	_		1015		_	_		10160
	74905	ııe	Pro	Val				ьуs	Gln				Asn	глг			
E>	74906	Q1	T	Τ		1016	_	<b>-</b>	<b>+</b>		1017		Б	<b>01</b>		0175	• ,
	74907	GTU	гуѕ				Ser	туs	Lys			Thr	Pro	_			ьуs
E>	<b>74908</b> 74909	Tire	77-7	•	1018		T	T	•	1018		T		(	1019		
P>		гла	va1	$\sim$ $^{\prime}$		rnr	ьуѕ	ьys	Arg	-	тАг	тйг					
>	74910			1019	"シ			(	1020	9							

When numbering amino acids, please include a space between the ending number and the following amino acid. Numbers cannot extend into t

When numberity the last amino and on a line, please ensure ending number appears directly under last letter of the amino acid hold \VsrJ724972.htm

RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/10/724,972

DATE: 12/22/2003 TIME: 07:13:37

Input Set: N:\Crf4\12172003\J724972.raw
Output Set: N:\CRF4\12222003\J724972.raw

### Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

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Seq#:1; Line(s) 3
Seq#:98; Line(s) 1577
Seq#:109; Line(s) 1758
Seq#:130; Line(s) 2141
Seq#:151; Line(s) 2447
Seq#:218; Line(s) 3554
Seq#:221; Line(s) 3588
Seq#:326; Line(s) 5545,5546,5547,5548,5549,5550,5551,5552,5553,5554,5555
Seq#:326; Line(s) 5556,5557,5558,5559,5560,5561,5562,5563,5564,5565,5566
Seq#:326; Line(s) 5567,5568,5569,5570,5571,5572,5573,5574,5575,5576,5577
Seq#:326; Line(s) 5578,5579,5580,5581,5582,5583,5584,5585,5586,5587,5588
Seq#:326; Line(s) 5589,5590,5591,5592,5593,5594,5595,5596,5597,5598,5599
Seq#:326; Line(s) 5600,5601,5602,5603,5604,5605,5606,5607,5608,5609,5610
Seq#:326; Line(s) 5611,5612,5613,5614,5615,5616,5617,5618,5619,5620,5621
Seq#:326; Line(s) 5622,5623,5624,5625,5626,5627,5628,5629,5630,5631,5632
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Seq#:326; Line(s) 5864,5865,5866,5867,5868,5869,5870,5871,5872,5873,5874
Seq#:326; Line(s) 5875,5876,5877,5878,5879,5880,5881,5882,5883,5884,5885
Seq#:326; Line(s) 5886,5887,5888,5889
Seg#:630; Line(s) 11412
Seq#:701; Line(s) 12694
Seq#:792; Line(s) 14362
Seq#:1212; Line(s) 21595
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RAW SEQUENCE LISTING ERROR SUMMARY

PATENT APPLICATION: US/10/724,972

DATE: 12/22/2003 TIME: 07:13:37

Input Set : N:\Crf4\12172003\J724972.raw
Output Set: N:\CRF4\12222003\J724972.raw

Seq#:1408; Line(s) 24816 Seq#:1802; Line(s) 31327

Seq#:1862; Line(s) 32403

Seq#:2170; Line(s) 37886,37887,37888,37889,37890,37891,37892,37893,37894 Seq#:2170; Line(s) 37895,37896,37897,37898,37899,37900,37901,37902,37903 Seq#:2170; Line(s) 37904

Seq#:2170; Line(s) 37904 Seq#:2278; Line(s) 39901 Seq#:2419; Line(s) 42184

### VERIFICATION SUMMARY

PATENT APPLICATION: US/10/724,972

DATE: 12/22/2003 TIME: 07:13:37

```
L:1596 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:98 after pos.:1020
L:1774 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:840
L:2143 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:130 after pos.:0
L:2451 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:151 after pos.:120
L:3557 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:218 after pos.:60
L:3591 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:221 after pos.:60
L:11422 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:630 after pos.:480
L:12730 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:701 after pos.:2040
L:14367 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:792 after pos.:180
L:21605 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1212 after pos.:480
L:24818 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1408 after pos.:0
L:31329 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1802 after pos.:0
L:32405 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1862 after pos.:0
L:39913 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2278 after pos.:600
L:42187 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2419 after pos.:60
L:47969 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2785 after pos.:480
L:50004 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2917 after pos.:960
L:55570 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3279 after pos.:60
M:341 Repeated in SeqNo=3279
L:55612 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3282 after pos.:120
L:55701 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3287 after pos.:600
L:59486 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3534 after pos.:0
L:60496 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3593 after pos.:0
L:61235 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3640 after pos.:240
L:61885 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3677 after pos.:60
L:68029 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3923 after pos.:32
L:74886 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4098
M:332 Repeated in SeqNo=4098
L:105668 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4984 after pos.:160
L:126353 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5634 after pos.:0
L:156395 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6557 after pos.:160
L:160184 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6689 after pos.:320
L:170599 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7051 after pos.:16
M:341 Repeated in SeqNo=7051
L:170828 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7059 after pos.:192
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